

October 1996
NSRP 0482

SHIP PRODUCTION COMMITTEE
FACILITIES AND ENVIRONMENTAL EFFECTS
SURFACE PREPARATION AND COATINGS
DESIGN/PRODUCTION INTEGRATION
HUMAN RESOURCE INNOVATION
MARINE INDUSTRY STANDARDS
WELDING
INDUSTRIAL ENGINEERING
EDUCATION AND TRAINING

THE NATIONAL SHIPBUILDING RESEARCH PROGRAM

Toxic Release Inventory Phase II

U.S. DEPARTMENT OF THE NAVY
CARDEROCK DIVISION,
NAVAL SURFACE WARFARE CENTER

in cooperation with
National Steel and Shipbuilding Company
San Diego, California

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE OCT 1996		2. REPORT TYPE N/A		3. DATES COVERED -	
4. TITLE AND SUBTITLE The National Shipbuilding Research Program, Toxic Release Inventory Phase II				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Naval Surface Warfare Center CD Code 2230 - Design Integration Tools Bldg 192 Room 128 9500 MacArthur Blvd Bethesda, MD 20817-5700				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT SAR	18. NUMBER OF PAGES 34	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

DISCLAIMER

These reports were prepared as an account of government-sponsored work. Neither the United States, nor the United States Navy, nor any person acting on behalf of the United States Navy (A) makes any warranty or representation, expressed or implied, with respect to the accuracy, completeness or usefulness of the information contained in this report/manual, or that the use of any information, apparatus, method, or process disclosed in this report may not infringe privately owned rights; or (B) assumes any liabilities with respect to the use of or for damages resulting from the use of any information, apparatus, method, or process disclosed in the report. As used in the above, "Persons acting on behalf of the United States Navy" includes any employee, contractor, or subcontractor to the contractor of the United States Navy to the extent that such employee, contractor, or subcontractor to the contractor prepares, handles, or distributes, or provides access to any information pursuant to his employment or contract or subcontract to the contractor with the United States Navy. ANY POSSIBLE IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR PURPOSE ARE SPECIFICALLY DISCLAIMED.

October 1996
NSRP 0482

NATIONAL SHIPBUILDING RESEARCH PROGRAM

**Toxic Release Inventory
Phase II**

**U.S. DEPARTMENT OF THE NAVY
CARDEROCK DIVISION,
NAVAL SURFACE WARFARE CENTER**

in cooperation with
National Steel and Shipbuilding Company
San Diego, California

FINAL REPORT

**TOXIC RELEASE INVENTORY
PHASE II**

Prepared by
Collier, Shannon, Rill & Scott, PLLC
Attorneys-at-Law
3050 K Street, N.W., Suite 400
Washington, D.C. 20007

For

NATIONAL STEEL AND SHIPBUILDING COMPANY
Harbor Drive and 28th Street
Post Office Box 85278
San Diego, CA 92186-5278

In Behalf Of
SNAME SPC PANEL SP-1

FACILITIES AND ENVIRONMENTAL EFFECTS

Under the
NATIONAL SHIPBUILDING RESEARCH PROGRAM

October 1996

INTRODUCTION

This document is Phase II of the audit of shipyard Toxic Release Inventory ("TRI") report forms ("Form R"), submitted pursuant to Section 313 of the Emergency Planning and Community Right-to-Know Act ("EPCRA"). The purpose of Phase II of the audit was (1) to compare the TRI data for 1993 and 1994; (2) to develop a comprehensive study to identify the use of inconsistent assumptions or methods of calculation for determining thresholds and reportable releases; and (3) to identify companies to undergo further study in order to identify the causes of the inconsistencies.

This report includes the following:

An analysis of the 1994 Toxic Release Inventory (TRI) reporting data;

A comparison of that data with the 1993 data;

A comprehensive study to be carried out in Phase III of this project

An identification of those reporting companies which demonstrate common and unique reporting inconsistencies warranting further study.

TABLE OF CONTENTS

	Page
COMPARISON OF 1993/1994 TRI DATA	1
COMPREHENSIVE SURVEY.....	2
COMPANIES IDENTIFIED FOR FURTHER STUDY.....	9

SECTION A:

1993 FORM R 313 DATA

SECTION B:

1994 FORM R 313 DATA

AUDIT OF SHIPYARD TRI REPORTING

We have completed Phase II of the audit of shipyard Toxic Release Inventory ("TRI") reporting forms ("Form R"), pursuant to Section 313 of the Emergency Planning and Community Right-to-Know Act ("EPCRA"). Phase II involved: (1) gathering, compiling and analyzing 1994 TRI reporting data, comparing the 1993 TRI reporting data with the 1994 TRI reporting data; (2) developing a comprehensive study plan designed to ascertain reporting assumptions and calculation methods as the basis for identifying reporting inconsistencies; and (3) identifying reporting companies with common and unique reporting inconsistencies warranting further study in Phase III of this project.

COMPARISON OF 1993/1994 TRI DATA

The first part of Phase II of the audit involved analyzing and comparing the 1993 TRI data with the newly obtained 1994 TRI data. Spreadsheet comparisons of the 1993 and 1994 reports of release, recycling and disposal activity using all shipyard Forms R (attached at tabs A and B respectively) revealed significant improvements in reporting consistency. However, many of the same reporting inconsistencies were identified. The following reporting inconsistencies and anomalies were found in the 1994 data

1. Diversity in the quantities reported for releases, recycling, treatment, etc. that seems to exceed differences in the level of production;
2. Diversity in the specificity of reporting -- one or two significant digits versus several;
3. Diversity in the treatments to which similar materials sent off-site are subject (energy recovery, recycling and treatment);
4. Diversity in reporting off-site transfers (Some companies are including off-site transfers in total quantity released.);
5. Diversity in the percentage of material reported as recovered, recycled or treated;
6. Diversity in approaches in reporting discharges to bodies of water and POTWs. (Some companies may include discharges to POTWs as discharges to bodies of water.);
7. Companies are reporting treatment of chemicals (metals) in a way that conflicts with EPA policy and/or the Form R definitions;
8. Companies are reporting significant amounts of off-site transfers with no accounting for their disposition,

9. Companies are reporting varying dispositions of the same chemical, which could reflect different interpretations of the definitions;
10. Certain chemicals were reported by only one company; and
11. No companies apparently reported any one time releases. This implies that no company ever spilled any Form R chemicals.

COMPREHENSIVE SURVEY

Using what we learned from analyzing and comparing the 1993 and 1994 data, we developed a comprehensive study plan designed to pinpoint the assumptions and calculation methods used by the reporting companies. The study, which will be carried out in Phase III of this project, is designed to identify the cause of the reporting inconsistencies as a means to develop a uniform set of assumptions and instructions to prevent future reporting inconsistency. The following is an outline of specific reporting inconsistencies identified in the 1994 TRI reported data which will be the roadmap for the study to be conducted in Phase III of this project:

GENERAL ISSUES

- A. Many companies report smaller quantities transferred off-site than the amount reported as recovered through off-site energy recovery, recycling, or treatment.
 1. What is the source of the additional material reported as recycled, recovered or treated off-site?
 2. Are there intra-company transfers of materials that are not reported on the Form R?
- B. The 1994 data clearly indicates a great disparity in amounts of chemicals reported among the various reporting companies.
 1. Determine the cause of the diversity in amounts reported.
 2. Are the differences in the reported amounts typographical errors, calculation errors, etc.
- C. The following chemicals were reported by only one reporting company: ethoxyethanol; barium; barium compounds; benzene; carbon tetrachloride; chlorine; cumene; dichlorotetrafluoroethane; glycol ethers; methyl tert-butyl ether; methylenebis; molybdenum trioxide; trichloroethylene; vinyl acetate.

1. How are threshold determinations made for these chemicals?
 2. Are there process differences that would account for these differences?
- D. The following chemicals were reported in the 1993 data but are not reported in the 1994 data: acrylonitrile; ammonia; hydrochloric acid; naphthalene.
1. Are companies no longer using these chemicals?
 2. How are threshold determinations being made?
- E. The following chemicals appeared for the first time in the 1994 data and were not reported in the 1993 data: barium; carbon tetrachloride; cumene; molybdenum trioxide; vinyl acetate.
1. Are these chemicals newly emitted?
- F. Diversity in the quantities reported for releases, recycling, treatment, etc. that seem to exceed differences in the level of production;
1. Determine cause of diversity -- eliminate typographical errors as cause of diversity in reporting amounts.
- G. Diversity in the specificity of reporting -- one or two significant digits versus several.
1. EPA instructions only require reports of two significant digits.
- H. Diversity in the treatments to which similar materials sent off-site are subject.
1. Are reporting companies properly characterizing treatments to which chemicals are subject off-site?
1. Diversity in reporting off-site transfers.
1. Are reporting companies including off-site transfers in total quantity released?
- J. Diversity in the percentage of material reported as recovered, recycled or treated.
1. What amounts of the reported chemicals are actually recovered, recycled and/or treated?
- K. Diversity in approaches in reporting discharges to bodies of water and POTWS.

1. Are companies including discharges to POTWs as discharges to bodies of water?
- L. Companies are reporting treatment of chemicals (metals) in a way that conflicts with EPA policy and/or the Form R definitions.
1. Are companies reporting metals as being treated, when in fact they are either recycled or disposed?
 2. How do companies report for the chemicals as opposed to the wastestream containing the chemicals?
- M. Companies are reporting significant amounts of off-site transfers with no accounting for their disposition.
1. What accounts for the difference in the amounts transferred off-site if not released or disposed?
- N. Companies are reporting varying dispositions of the same chemical, which could reflect different interpretations of the definitions.
1. What are the various interpretations of the terms treatment, recycling and recovery?
 2. What emission factors are being used to calculate releases?
- O. Did any company experience a spill or release of any Form R chemicals?

CHEMICAL SPECIFIC ISSUES

- P. 1,1,1-Trichloroethane reporting companies report varied dispositions of this chemical.
1. Are the varying dispositions of this chemical properly characterized for purposes of Form R?
- Q. 1,2-Dichloroethane The two reporting companies report identical non-point source air emissions. However, one company (Platzer) reports significant stack or point source air emissions while the other (Newpark) reports only a small amount.
1. What accounts for the difference in stack or point source air emissions?

- R. Trimethylbenzene consistent reporting of non-point source air emissions. Each company also reports off-site energy recovery. However, one company reports a small amount of off-site treatment and another company reports a small amount of on-site recycling.
1. Are off-site treatment and on-site recycling properly characterized and reported?
- S. Barium (only one reporting company (Brown & Root)) shows amounts transferred off-site.
1. What disposition is being made of the amounts transferred off-site?
- T. Chlorine (only one reporting company (Ingalls)) shows no amount transferred off-site but 430 lbs/yr of off-site treatment.
1. Where is the chemical treated off-site coming from?
- u. Chromium (one reporting company (Bath Iron Works)) reports significant on-site recycling of chromium.
1. Is the on-site recycling of chromium properly characterized and reported?
- v. Chromium Compounds Avondale reports more off-site recycling than quantity transferred off-site. Newport reports more off-site treatment than quantity transformed off-site. McDermott reports only non-point source air emissions of chromium compounds.
1. How can off-site recycling/treatment exceed the amount transferred off-site?
2. (McDermott) Are there other dispositions of the chromium compounds?
- w. Copper One company reports off-site recycling in excess of amounts transferred off-site. Only one company reports on-site recycling.
1. How is the balance of the amount transferred off-site being handled?
2. Is on-site recycling properly characterized and reported?

- x. Copper Compounds only one of the 13 reporting companies (Todd Pacific) reports stack air emissions -- and reports stack air emissions equal to non-point source air emissions. one company (U.S. Navy) reports equal amounts of discharges to streams or bodies of water and discharges to POTW.
1. Are the same emissions being double counted?
- Y. DiChloromethane (U.S. Navy) off-site transfers are less than off-site treatment.
1. What accounts for the difference between the amount transferred off-site and off-site treatment?
- z. Ethylene Glycol Platzer reports identical amounts of point and non-point source air emissions.
1. What is the basis for the release estimate?
- AA. Lead Compounds The three reporting companies report identical non point-source air emissions. One of the three reporting companies reports no discharges to bodies of water. One company reports off-site energy recovery.
1. Are the other two reporting companies failing to report discharges to bodies of water?
2. Is off-site energy recovery properly characterized and reported?
- AB. Manganese Compounds One of the five reporting companies (Newport News) reports identical amounts of non-point source air emissions, discharges to streams or bodies of water, releases to on-site landfills.
1. Verify that this is not a typographical error.
- AC. Methanol Each of the three reporting companies reports different dispositions -- off-site energy recovery, off-site recycling, on-site treatment, off-site treatment.
1. Determine whether the dispositions are properly characterized and reported.

- AD. MethylEthylKetone One of the five reporting companies (Halter) reports on-site recycling.
1. Determine whether on-site recycling is properly characterized and reported.
- AE. Methyl Isobutyl Ketone One of the four reporting companies (Platzer) reports point-source air emissions in addition to non-point source air emissions. One of the four reporting companies (Platzer) reports on and off-site treatment.
1. Determine whether point-source air emissions are properly characterized and reported.
 2. Determine whether on and off-site treatment are properly characterized and reported.
- AF. N-Butyl Alcohol One of the 20 reporting companies reports stack or point source emissions. Companies consistently report off-site energy recovery. Other dispositions vary greatly (4 report on-site recycling, one reports a large amount of off-site recycling, one reports a small amount of on-site treatment, four report significant amounts of off-site treatment).
1. Determine whether stack or point-source air emissions are properly characterized and reported.
 2. Determine whether varying dispositions are properly characterized and reported.
- AG. Nickel Two of five companies report discharges to streams or bodies of water. One (Ingalls) does not report off-site recycling. One (Bath) reports on-site recycling.
1. Determine whether varying dispositions are properly characterized and reported.
- AH. Nickel Compounds One company (Newport News) reports very large non-point source air emissions and off-site treatment.

1. Determine whether these dispositions are properly characterized and reported.
- AI. Styrene** One (Newpark) of eight reports discharges to streams or bodies of water. Varied dispositions include off-site energy recovery, off-site recycling, on and off-site treatment.
1. Determine whether these dispositions are properly characterized and reported.
- AJ. Toluene** Two (Bollinger and U.S. Navy) do not report off-site energy recovery. dispositions vary greatly -- on and off-site recycling and treatment.
1. Determine whether these dispositions are properly characterized and reported.
- AK. Xylene** Four of 37 report stack or point source air emissions. Two (Cascade and Newpark) report discharges to streams or bodies of water. One (Cascade) reports releases to on-site landfill. Varied dispositions -- all but 10 report off-site energy recovery. varied on and off-site recycling and treatment.
1. Determine whether these dispositions are properly characterized and reported.
- AL. Zinc compounds** One (Atlantic Marine) reports very large stack or point source emissions. Varied dispositions. One reports off-site recycling.
1. Determine whether these dispositions are properly characterized and reported.
- AM. Zinc** One (National Steel) of seven companies reports small amounts of on and off-site treatment.
1. Determine whether on and off-site treatment are properly characterized and reported.

COMPANIES IDENTIFIED FOR FURTHER STUDY

After reviewing all of the 1993 and 1994 data, we preliminarily have identified several companies to undergo further study in the next phase of this project to identify the assumption and calculations methods used by reporting companies to enable us to put together a comprehensive guidebook for completing Form R to ensure consistent reporting in the future. The study will be undertaken in combination with NASSCO.

The following companies exhibited common and unique reporting anomalies and inconsistencies and will undergo further review in the next phase of this project: Newport News; Platzer; Newpark; and U.S. Navy. Additionally, several companies will be surveyed informally, over the telephone, where an isolated reporting issue requires follow-up.

[The following preliminary questions would be addressed to the reporting companies identified for further study]

FACILITY: _____

PRELIMINARY SURVEY QUESTIONS

1. What are the methods of on-site recycling of metals?
2. What are the methods of off-site recycling of metals?
3. How are companies performing threshold calculations for welding emissions?
4. What are the methods of on-site recycling of solvents?
5. What are the methods of off-site recycling of solvents?
6. Where the amount transferred off-site is less than the amount identified as treated, recycled or recovered off-site, what is the source of the additional amount of chemicals identified as treated, recycled or recovered?
7. Are there intra-company transfers of materials that are not reported on the Form R?
8. How are threshold determinations being made for the following chemicals: ethoxyethanol; barim, barium compounds; benzene; carbon tetrachloride; chlorine; cumene; dichlorotetrafluoroethane; glycol ethers; methyl tert-butyl ether; methylenebis; molybdenum trioxide; trichloroethylene; vinyl acetate; acrylonitrile; ammonia; hydrochloric acid; naphthalene?
9. Are reporting companies including off-site transfers in total quantity released?
10. Are companies including discharges to POTWs as discharges to bodies of water?

11. What are the various interpretations of the terms treatment, recycling and recovery?
12. What emission factors are being used to calculate releases?
13. Did any company experience a spill or release of any Form R chemicals?
14. How do companies report for the chemicals as opposed to the wastestream containing the chemicals?

SECTION A

Facility	Toxic Chemical	Fugitive Or Non-Point Air Emission (lbs/year)	Discharges to Streams or Bodies of Water (lbs/year)	Releases To On-Site Landfill (lbs/year)	Discharges to POTW (lbs/year)	Transfers to Other Off-Site Locations (lbs/year)	8 1 1993 Quantity Released (lbs/year)	1993 Off-Site Energy Recovery (lbs/year)	1993 On-Site Recycling (lbs/year)	1993 Off-Site Recycling (lbs/year)	1993 On-Site Treatment (lbs/year)	1993 Off-Site Treatment (lbs/year)	1993 Total Wastestream (lbs/year)
GENERAL DYNAMICS CORP - GROTON, CT	1,1,1-TRICHLOROETHANE	1,512				8,678	1,512			8,678			10,190
INGALLS SHIPBUILDING INC - PASCAGOULA, MS	1,1,1-TRICHLOROETHANE	28,000				1,440	28,000					1,200	29,200
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	1,1,1-TRICHLOROETHANE	48,000			11-499	16,000	46,000	16,000				23	62,023
NEWARK SHIPBUILDING & REPAIR - HOUSTON, TX	1,2-DICHLOROETHANE	255	250				125		139,568		7,202		146,865
AVONDALE IND INC MAIN YARD - AVONDALE, LA	1,2,4-TRIMETHYLBENZENE	17,640				5	17,640						17,640
BATH IRON WORKS CORP - BATH, ME	1,2,4-TRIMETHYLBENZENE	17,660				5,196	17,660	5,200	508				23,568
BATH IRON WORKS CORP PORT - RTE 1, BRUNSWICK,	2-ETHOXYETHANOL	22,200				1,250	22,200	1,250					23,450
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	2-ETHOXYETHANOL	29,190					29,190						29,190
TRINITY IND INC - BEAUMONT, TX	2-ETHOXYETHANOL	11,276				3,951	20,276	9,000					29,276
ADMIRAL MARINE WORKS INC - PORT TOWNSEND, WA	ACETONE	11,000				880	11,000		13,700			880	25,580
AVONDALE IND GRP DIV - GULFPORT, MS	ACETONE	61,400				14,550	61,400	14,550	64,000				139,950
AVONDALE IND INC MAIN YARD - AVONDALE, LA	ACETONE	17,660				7,970	17,660	7,970					25,630
INTERMARINE USA - SAVANNAH, GA	ACETONE	91,407				134,988	91,407	68,496	3,927	66,492			230,322
MAKO MARINE INC - MIAMI, FL	ACETONE	170,000				34,800	170,000	26,000				8,600	204,600
ARMSTRONG SHIPYARD AMELIA - AMELIA, LA	ACETONE	15,000				5,900	15,000	5,900					20,900
PORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	ACETONE	12,250			11-499	18,650	13,000	8,500		11,000		20	32,520
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	ACETONE	8,476				811	9,166	520	414				10,100
TRINITY IND - GULFPORT, MS	ACETONE	9,050				10,134	19,193	10,134					29,327
NEWARK SHIPBUILDING & REPAIR - HOUSTON, TX	ACRYLONITRILE	255	250				40		44,614		2,231		46,885
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	AMMONIA	12,000					12,000						12,000
AVONDALE IND INC MAIN YARD - AVONDALE, LA	BARIUM COMPOUNDS	4,440				750	3,551					500	4,051
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	BARIUM COMPOUNDS	25,000				20,450	25,000	21,000					46,000
PLATZER SHIPYARD INC - HOUSTON, TX	BENZENE	67,551					67,551				215		67,766
INGALLS SHIPBUILDING INC - PASCAGOULA, MS	CHLORINE	250	380		530		890					530	1,420
BATH IRON WORKS CORP - BATH, ME	CHROMIUM	5	5		1-10	72,820	2,150			75,750			77,900
BATH IRON WORKS CORP - BRUNSWICK, ME	CHROMIUM	5				15,700	400		4,790	15,450			20,640
BATH IRON WORKS CORP PORT - RTE 1, BRUNSWICK,	CHROMIUM	5				255	400			42,127			42,527
AVONDALE IND INC MAIN YARD - AVONDALE, LA	CHROMIUM COMPOUNDS	30	37		1-10	304,230	70			204,600			204,670
GENERAL DYNAMICS CORP - GROTON, CT	CHROMIUM COMPOUNDS	161	38		1-10	7	206			7			213
INGALLS SHIPBUILDING INC - PASCAGOULA, MS	CHROMIUM COMPOUNDS	250	250	5		3,520	1,500	20		10	500	3,000	5,030
INTERMARINE USA - SAVANNAH, GA	CHROMIUM COMPOUNDS	1,100			11-499	37,607	1,100			37,607			38,707
NORSHIPCO CORP - NORFOLK, VA	CHROMIUM COMPOUNDS	500			1-10	1,040	1,100					5	1,105
BATH IRON WORKS CORP - BATH, ME	COPPER	5	250		1-10	246,048	400			245,800			246,200
BATH IRON WORKS CORP - BRUNSWICK, ME	COPPER	5				84,430	400		27,780	84,180			112,360
BATH IRON WORKS CORP PORT - 20 COMMERCIAL ST,	COPPER	5				3,690	400			3,440			3,840
BATH IRON WORKS CORP PORT - RTE 1, BRUNSWICK,	COPPER	5	5		1-10	260	400						400
SAN FRANCISCO DRY DOCK - SAN FRANCISCO, CA	COPPER	0				3,747				747		747	1,494
ATLANTIC DRY DOCK CORP - JACKSONVILLE, FL	COPPER COMPOUNDS	8,000				250	38,170					330	38,500
BETHLEHEM STEEL CORP - PORT ARTHUR, TX	COPPER COMPOUNDS	8,300				500	8,300					490	8,790
BETHLEHEM STEEL CORP BETH - SPARROWS POINT, M	COPPER COMPOUNDS	11,202	250		1-10	14,682	11,202				14,682		25,884
CADE GENERAL INC - PORTLAND, OR	COPPER COMPOUNDS	17,514	7,006	14,011		11,207	49,039	11,206					60,245
GENERAL DYNAMICS CORP - GROTON, CT	COPPER COMPOUNDS	952	684		1-10		1,642						1,642
GENERAL DYNAMICS CORP - NORTH KINGSTOWN, RI	COPPER COMPOUNDS	380					390						390
INGALLS SHIPBUILDING INC - PASCAGOULA, MS	COPPER COMPOUNDS	2,800		250		7,570	3,800	7,300			500		11,600
METRO MACHINE CORP - NORFOLK, VA	COPPER COMPOUNDS	6,351			121	5,580	6,351			2,385	18	3,316	12,070
NATIONAL STEEL & SHIPBUILD - SAN DIEGO, CA	COPPER COMPOUNDS	200	6		1	4,400	200	4,400				1	4,601
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	COPPER COMPOUNDS	2,900	250	5	11-499	24,030	2,900	21,000			130	3,700	27,730
NORSHIPCO CORP - NORFOLK, VA	COPPER COMPOUNDS	250			500-999	20,000	1,500			20,000		1,000	22,500
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	COPPER COMPOUNDS	4,490					4,490						4,490
TODD PACIFIC SHIPYARDS - SEATTLE, WA	COPPER COMPOUNDS	10	500		1-10	1,500	24				1	1,615	1,640
INGALLS SHIPBUILDING INC - PASCAGOULA, MS	DICHLOROMETHANE	19,000				1,300	19,000	1,300					20,300
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	DICHLOROMETHANE	15,000				4,500	15,000	4,500					19,500
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	DICHLOROMETHANE	14,634				740	17,000						17,000
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	ETHYLBENZENE	11,300				27,422	11,000	13,000		15,000			39,000
BATH IRON WORKS CORP - BATH, ME	ETHYLENE GLYCOL				11-499	20,200	0					20,200	20,200
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	ETHYLENE GLYCOL	250			500-999		11				25,000	2,000	27,011
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	ETHYLENE GLYCOL	685				2,529	7,910		1,310				9,220
GENERAL DYNAMICS CORP - GROTON, CT	FREON 113	11,348				22,462	11,348			22,462			33,810
INGALLS SHIPBUILDING INC - PASCAGOULA, MS	FREON 113	6,900				9,640	7,100	2,500				6,900	16,500
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	FREON 113					100,300				100,700			100,700
AVONDALE IND INC MAIN YARD - AVONDALE, LA	GLYCOL ETHERS	16,580				2,690	15,580	2,690					18,270
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	HYDROCHLORIC ACID	250					41				10,000		10,041
HALTER MARINE INC - LOCKPORT, LA	ISOPROPYL ALCOHOL (MANUFA	14,599				13,235	14,559	13,235					27,794
TRINITY IND INC - BEAUMONT, TX	ISOPROPYL ALCOHOL (MANUFA	11,395				9,000	20,395	9,000					29,395

Facility	Toxic Chemical	Fugitive Or Non-Point Air Emission (lbs/year)	Discharges to Streams or Bodies of Water (lbs/year)	Releases To On-Site Landfill (lbs/year)	Discharges to POTW (lbs/year)	Transfers to Other Off-Site Locations (lbs/year)	8 1	1993	1993	1993	1993	1993	1993
							Quantity Released (lbs/year)	Off-Site Energy Recovery (lbs/year)	On-Site Recycling (lbs/year)	Off-Site Recycling (lbs/year)	On-Site Treatment (lbs/year)	Off-Site Treatment (lbs/year)	Total Wastestream (lbs/year)
TRINITY MARINE GROUP - MADISONVILLE, LA	ISOPROPYL ALCOHOL (MANUFA	12,145				3,354	15,499	3,354					18,853
GENERAL DYNAMICS CORP. - GROTON, CT	LEAD COMPOUNDS	250	366		1-10	2,178	556			1,640		538	2,734
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	LEAD COMPOUNDS	250		5		335	1,000	40		20	500	30	1,500
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	LEAD COMPOUNDS	250	5	250	1-10	1,005	90	500			130	30	750
AVONDALE IND INC MAIN YARD - AVONDALE, LA	MANGANESE	1,140				319,010	1,140			319,010			320,150
BROWN & ROOT INC MARINE - HOUSTON, TX	MANGANESE	900	5	72		38,500	10,400			29,100			39,500
JEFFBOAT - JEFFERSONVILLE, IN	MANGANESE	1,902					1,902						1,902
GENERAL DYNAMICS CORP. - GROTON, CT	MANGANESE COMPOUNDS	640					640						640
GENERAL DYNAMICS CORP. - NORTH KINGSTOWN, RI	MANGANESE COMPOUNDS	220					220						220
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	MANGANESE COMPOUNDS	250					500						500
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	MANGANESE COMPOUNDS	250					300						300
PLATZER SHIPYARD INC. - HOUSTON, TX	METHANOL	27,506					27,506				244		27,750
OASCADE GENERAL INC. - PORTLAND, OR	METHYL ETHYL KETONE	21,738	1,144			1,657	22,882	1,657					24,539
HBC BARGE INC. - BROWNSVILLE, PA	METHYL ETHYL KETONE	5,707				10,957	16,664	10,957					27,621
"BOAT - JEFFERSONVILLE, IN	METHYL ETHYL KETONE	52,354				34,188	52,354	34,188					86,542
POINT MARINE INC. - ESCATAWPA, MS	METHYL ETHYL KETONE	14,413				4,082	18,495	4,082			4,082		26,659
TRINITY MARINE GROUP - MADISONVILLE, LA	METHYL ETHYL KETONE	8,150				2,036	10,186	2,036					12,222
COLONNAS SHIPYARD INC. - NORFOLK, VA	METHYL ISOBUTYL KETONE	9,000					8,000						8,000
GENERAL DYNAMICS CORP. - GROTON, CT	METHYL ISOBUTYL KETONE	1,272				9,213	1,272	9,213					10,485
NORSHIPCO CORP. - NORFOLK, VA	METHYL ISOBUTYL KETONE	32,000				3,900	32,000	3,900	700				36,600
PLATZER SHIPYARD INC. - HOUSTON, TX	METHYL TERT-BUTYL ETHER	111,771					111,771				196		111,967
MAKO MARINE INC. - MIAMI, FL	METHYLENEBIS(PHENYLISOCYA												0
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	METHYLENEBIS(PHENYLISOCYA	250					20						20
SOUTHWEST MARINE SAN PEDRO - TERMINAL ISLAND,	NAPHTHALENE	21,696				2,411					2,411		2,411
ALABAMA SHIPYARD INC. - MOBILE, AL	N-BUTYL ALCOHOL	27,755		564		750	27,725	564					28,289
ATLANTIC MARINE INC. - JACKSONVILLE, FL	N-BUTYL ALCOHOL	43,000				2,050	43,000	2,050	1,000				46,050
BATH IRON WORKS CORP. - BATH, ME	N-BUTYL ALCOHOL	47,918				15,377	47,918	15,380					63,298
BATH IRON WORKS CORP. PORT - 20 COMMERCIAL ST,	N-BUTYL ALCOHOL	9,130				2,140	9,130	2,140					11,270
BETHLEHEM STEEL CORP. - PORT ARTHUR, TX	N-BUTYL ALCOHOL	10,000				500	10,000	180	100		40		10,320
BETHLEHEM STEEL CORP. BETH - SPARROWS POINT, M	N-BUTYL ALCOHOL	11,077				2,897	11,077				2,897		13,974
CASCADE GENERAL INC. - PORTLAND, OR	N-BUTYL ALCOHOL	15,777	750			4,004	16,397	4,004					20,401
COLONNAS SHIPYARD INC. - NORFOLK, VA	N-BUTYL ALCOHOL	13,000					13,000						13,000
GENERAL DYNAMICS CORP. - GROTON, CT	N-BUTYL ALCOHOL	6,543				14,398	6,543	14,398					20,941
GRENA MACHINE & IRON WORK - HARVEY, LA	N-BUTYL ALCOHOL	14,474				4,333	18,807	4,333					23,140
HBC BARGE INC. - BROWNSVILLE, PA	N-BUTYL ALCOHOL	4,801				1,730	6,531	1,730					8,261
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	N-BUTYL ALCOHOL	420,000				110,000	420,000	110,000					530,000
JEFFBOAT - JEFFERSONVILLE, IN	N-BUTYL ALCOHOL	26,121					26,121						26,121
METRO MACHINE CORP. - NORFOLK, VA	N-BUTYL ALCOHOL	27,903				6,720	27,903				6,720		34,623
MID ATLANTIC FAC - NORFOLK, VA	N-BUTYL ALCOHOL	9,331				3,915	9,331				3,915		13,246
POINT MARINE INC. - ESCATAWPA, MS	N-BUTYL ALCOHOL	27,552				7,776	35,328	7,776		7,776			50,880
ONAL STEEL & SHIPBUILD - SAN DIEGO, CA	N-BUTYL ALCOHOL	63,000				11,000	63,000	11,000					74,000
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	N-BUTYL ALCOHOL	83,000			11-499	80,850	83,000	64,000		17,000	42		164,042
NORSHIPCO CORP. - NORFOLK, VA	N-BUTYL ALCOHOL	34,000				3,900	34,000	3,900	700				38,600
NORSHIPCO & DRYDOCK CORP. - NORFOLK, VA	N-BUTYL ALCOHOL	19,000					19,000						19,000
PLATZER SHIPYARD INC. - HOUSTON, TX	N-BUTYL ALCOHOL	15,740					15,740				40		15,780
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	N-BUTYL ALCOHOL	66,265				6,161	66,244	4,803	4,973				79,400
SOUTHWEST MARINE INC. - SAN DIEGO, CA	N-BUTYL ALCOHOL	500				110		110	110		110		330
TODD PACIFIC SHIPYARDS - SEATTLE, WA	N-BUTYL ALCOHOL	17,865				424	17,865	424	108				18,397
TRINITY MARINE GROUP - MADISONVILLE, LA	N-BUTYL ALCOHOL	6,890				1,722	8,612	1,722					10,334
WEST STATE INC - PORTLAND, OR	N-BUTYL ALCOHOL	63,513				12,881	63,513	12,881					76,394
BATH IRON WORKS CORP. - BATH, ME	NICKEL	5	5		1-10	821,976	2,200			85,050			87,250
BATH IRON WORKS CORP. - BRUNSWICK, ME	NICKEL	5				22,320	400		7,500	22,070			29,870
BATH IRON WORKS CORP. PORT - RTE 1, BRUNSWICK,	NICKEL	5			1-10	255	400			24,388			24,788
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	NICKEL	250					500						500
GENERAL DYNAMICS CORP. - GROTON, CT	NICKEL COMPOUNDS	470			1-10		470				8		478
GENERAL DYNAMICS CORP. - NORTH KINGSTOWN, RI	NICKEL COMPOUNDS	260					260						260
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	NICKEL COMPOUNDS	1,100	250	250	11-499	8,150	1,100	4,300			150	3,700	9,250
ACADIAN SHIPYARD INC. - BOURG, LA	PROPYLENE	95					95						95
BATH IRON WORKS CORP. - BATH, ME	PROPYLENE	250					50						50
BATH IRON WORKS CORP. PORT - RTE 1, BRUNSWICK,	PROPYLENE	5					3						3
BETHLEHEM STEEL CORP. - PORT ARTHUR, TX	PROPYLENE	250					30						30
BETHLEHEM STEEL CORP. BETH - SPARROWS POINT, M	PROPYLENE	1,975					1,975						1,975
PLATZER SHIPYARD INC. - HOUSTON, TX	P-XYLENE	2,406					2,406				95		2,501
AVONDALE IND GRP DIV - GULFPORT, MS	STYRENE	28,700				19,800	28,700	19,800					48,500

Facility	Toxic Chemical	Fugitive Or Non-Point Air Emission (lbs/year)	Discharges to Streams or Bodies of Water (lbs/year)	Releases To On-Site Landfill (lbs/year)	Discharges to POTW (lbs/year)	Transfers to Other Off-Site Locations (lbs/year)	8 1 1993 Quantity Released (lbs/year)	1993 Off-Site Energy Recovery (lbs/year)	1993 On-Site Recycling (lbs/year)	1993 Off-Site Recycling (lbs/year)	1993 On-Site Treatment (lbs/year)	1993 Off-Site Treatment (lbs/year)	1993 Total Wastestream (lbs/year)
GENERAL DYNAMICS CORP - NORTH KINGSTOWN, RI	STYRENE	595				854	595					854	1,449
INTERMARINE USA - SAVANNAH, GA	STYRENE	25,885				60,057	60,370	25,572					85,942
MAKO MARINE INC - MIAMI, FL	STYRENE	78,000				2,500	78,000	2,500					80,500
NEW ORLEANS SHIPYARD - WAGGAMAN, LA	STYRENE												0
PLATZER SHIPYARD INC - HOUSTON, TX	STYRENE	5,595					5,595						5,884
INGALLS SHIPBUILDING INC - PASCAGOULA, MS	SULFURIC ACID	2,100				36,680	38,000				289	26,000	64,880
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	SULFURIC ACID	1,000				250	970			420	330,000		331,390
ALABAMA SHIPYARD INC - MOBILE, AL	TOLUENE	13,113		2,920		2,920	13,113	2,920					16,033
GRETNAM MACHINE & IRON WORK - HARVEY, LA	TOLUENE	948				4,333	5,281	4,333					9,614
HALTER MARINE INC - LOCKPORT, LA	TOLUENE	15,622				13,235	15,622	13,235					28,857
HALTER MARINE INC - MOSS POINT, MS	TOLUENE	13,858				10,333	24,191	10,333					34,524
HBC BARGE INC - BROWNSVILLE, PA	TOLUENE	25,733				10,956	36,689	10,956					47,645
INGALLS SHIPBUILDING INC - PASCAGOULA, MS	TOLUENE	45,000				4,910	45,000	3,100		1,600		210	49,910
JEFFBOAT - JEFFERSONVILLE, IN	TOLUENE	10,892					10,892						10,892
HERMOTT SHIPYARD AMELIA - AMELIA, LA	TOLUENE	27,000				11,000	27,000	11,000					38,000
ITY IND - GULFPORT, MS	TOLUENE	9,059				10,134	19,193	10,134					29,327
TRINITY MARINE GROUP - MADISONVILLE, LA	TOLUENE	5,564				3,355	8,919	3,355					12,274
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	TRICHLOROETHYLENE	11,000			11-499	3,300	11,000	3,300				11	14,311
ALABAMA SHIPYARD INC - MOBILE, AL	XYLENE (MIXED ISOMERS)	21,952		750		750	21,952	769					22,721
ATLANTIC DRY DOCK CORP. - JACKSONVILLE, FL	XYLENE (MIXED ISOMERS)	38,170				250	38,000	330	2,600				40,930
ATLANTIC MARINE INC - MOBILE, AL	XYLENE (MIXED ISOMERS)	40,778		43,159		43,159	40,778	43,159					92,937
AVONDALE IND. INC MAIN YARD - AVONDALE, LA	XYLENE (MIXED ISOMERS)	25,200				49,400	25,200	49,400					74,600
BATH IRON WORKS CORP. - BATH, ME	XYLENE (MIXED ISOMERS)	37,050				11,675	37,050	11,675	400				49,725
BATH IRON WORKS CORP. PORT - 20 COMMERCIAL ST.,	XYLENE (MIXED ISOMERS)	11,500				2,700	11,500	2,700					14,200
BAY SHIPBUILDING CO. - STURGEON BAY, WI	XYLENE (MIXED ISOMERS)	10,808				492	10,808	429					11,235
BETHLEHEM STEEL CORP. - PORT ARTHUR, TX	XYLENE (MIXED ISOMERS)	28,000				1,000	28,000	550	690			110	29,350
BETHLEHEM STEEL CORP. BETH - SPARROWS POINT, M	XYLENE (MIXED ISOMERS)	28,903				7,576	28,903					7,576	36,479
CASCADE GENERAL INC. - PORTLAND, OR	XYLENE (MIXED ISOMERS)	76,999	4,158			4,734	83,728	4,484					88,212
COLONNAS SHIPYARD INC. - NORFOLK, VA	XYLENE (MIXED ISOMERS)	22,000					22,000						22,000
GENERAL DYNAMICS CORP. - GROTON, CT	XYLENE (MIXED ISOMERS)	3,119				16,788	3,119	16,788					19,907
GRETNAM MACHINE & IRON WORK - HARVEY, LA	XYLENE (MIXED ISOMERS)	14,811				4,333	19,144	4,333					23,477
HALTER MARINE INC. - LOCKPORT, LA	XYLENE (MIXED ISOMERS)	27,250				13,235	27,520	13,235					40,755
HALTER MARINE INC. - MOSS POINT, MS	XYLENE (MIXED ISOMERS)	12,090				10,333	22,423	10,333					32,756
HBC BARGE INC - BROWNSVILLE, PA	XYLENE (MIXED ISOMERS)	7,819				10,957	18,776	10,957					29,733
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	XYLENE (MIXED ISOMERS)	149,000				28,820	149,000	25,000		3,700		120	177,820
JEFFBOAT - JEFFERSONVILLE, IN	XYLENE (MIXED ISOMERS)	48,068					48,068						48,068
MOSS POINT MARINE INC - ESCATAWPA, MS	XYLENE (MIXED ISOMERS)	30,789				2,532	33,321	2,532		2,532			38,385
NASHVILLE BRIDGE CO. - NASHVILLE, TN	XYLENE (MIXED ISOMERS)	12,755				1,288	12,755	1,288					14,043
NATIONAL STEEL & SHIPBUILD - SAN DIEGO, CA	XYLENE (MIXED ISOMERS)	40,000				42,700	40,000	42,700	12,000				94,700
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	XYLENE (MIXED ISOMERS)	142,000			11-499	241,850	142,000	213,000		27,000		180	382,180
SHIPCO CORP. - NORFOLK, VA	XYLENE (MIXED ISOMERS)	183,000				7,800	183,000	7,800	3,300				174,100
SHIPCO & DRYDOCK CORP. - NORFOLK, VA	XYLENE (MIXED ISOMERS)	21,000					21,000						21,000
PETERSON BUILDERS INC. - STURGEON BAY, WI	XYLENE (MIXED ISOMERS)	9,127			11-499	3,456	9,127			2,946			12,073
PLATZER SHIPYARD INC. - HOUSTON, TX	XYLENE (MIXED ISOMERS)	29,550					29,550		12,160		312		42,022
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	XYLENE (MIXED ISOMERS)	47,235				11,204	48,303	10,137	7,480				65,900
TODD PACIFIC SHIPYARDS - SEATTLE, WA	XYLENE (MIXED ISOMERS)	71,298				2,127	71,286	2,127	8,169				81,582
TRINITY IND - GULFPORT, MS	XYLENE (MIXED ISOMERS)	13,168				10,134	23,302	10,134					33,436
TRINITY IND INC - BEAUMONT, TX	XYLENE (MIXED ISOMERS)	17,680				14,250	31,930	14,250					46,180
TRINITY MARINE GROUP - MADISONVILLE, LA	XYLENE (MIXED ISOMERS)	40,000				5,030	45,030	5,030					50,060
WEST STATE INC - PORTLAND, OR	XYLENE (MIXED ISOMERS)	102,088				25,660	102,088	25,660					127,748
ALABAMA SHIPYARD INC - MOBILE, AL	ZINC COMPOUNDS			750		750	575						575
ATLANTIC MARINE INC. - JACKSONVILLE, FL	ZINC COMPOUNDS	5,800				250	5,800					462	6,262
ATLANTIC MARINE INC. - MOBILE, AL	ZINC COMPOUNDS	11,030	250			250	11,499						11,499
AVONDALE IND. INC MAIN YARD - AVONDALE, LA	ZINC COMPOUNDS	10	1,848		11-499	5,000	2,200			5,075			7,275
BETHLEHEM STEEL CORP. BETH - SPARROWS POINT, M	ZINC COMPOUNDS	9,717	1,500		1-10	12,737	11,267					12,737	24,004
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	ZINC COMPOUNDS	13,100	250	250		135,550	14,900	5,000		130,000	500		150,400
METRO MACHINE CORP. - NORFOLK, VA	ZINC COMPOUNDS	2,120			252	1,205	2,120			118	21	1,339	3,568
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	ZINC COMPOUNDS	21,000	250	5	11-499	31,550	21,300	21,300			180	11,200	53,960
NORSHIPCO CORP. - NORFOLK, VA	ZINC COMPOUNDS	250			500-999		500					1,000	1,500
TODD PACIFIC SHIPYARDS - SEATTLE, WA	ZINC COMPOUNDS	10	500		1-10	500	32				2	680	714
WEST STATE INC - PORTLAND, OR	ZINC COMPOUNDS					0							0
HALTER MARINE INC. - LOCKPORT, LA	ZINC (FUME OR DUST)	2,686				13,235	15,921	13,235					29,156
HALTER MARINE INC. - MOSS POINT, MS	ZINC (FUME OR DUST)	2,352				10,333	12,685	10,333					23,018
JEFFBOAT - JEFFERSONVILLE, IN	ZINC (FUME OR DUST)					219,050	219,050						219,050

Facility	Toxic Chemical	Fugitive Or Non-Point Air Emission (lbs/year)	Discharges to Streams or Bodies of Water (lbs/year)	Releases To On-Site Landfill (lbs/year)	Discharges to POTW (lbs/year)	Transfers to Other Off-Site Locations (lbs/year)	8 1	1993	1993 On-Site Recycling (lbs/year)	1993 Off-Site Recycling (lbs/year)	1993 On-Site Treatment (lbs/year)	1993 Off-Site Treatment (lbs/year)	1993 Total Wastestream (lbs/year)
							Quantity Released (lbs/year)	Off-Site Energy Recovery (lbs/year)					
MOSS POINT MARINE INC - ESCATAWPA, MS	ZINC (FUME OR DUST)	40,505				11,664	52,169	11,664		11,664			75,497
NATIONAL STEEL & SHIPBUILD - SAN DIEGO, CA	ZINC (FUME OR DUST)	1,000	58		6	21,200	1,000	2,200		16,400		6	19,606
TRINITY MARINE GROUP - MADISONVILLE, LA	ZINC (FUME OR DUST)	10				48,000	10			64,600			64,610
WEST STATE INC - PORTLAND, OR	ZINC (FUME OR DUST)					0	22,005						22,005

Facility	Toxic Chemical	Fugitive Or Non-Point Air Emission (lbs/year)	Discharges to Streams or Bodies of Water (lbs/year)	Releases To On-Site Landfill (lbs/year)	Discharges to POTW (lbs/year)	Transfers to Other Off-Site Locations (lbs/year)	8 1 1993 Quantity Released (lbs/year)	1993 Off-Site Energy Recovery (lbs/year)	1993 On-Site Recycling (lbs/year)	1993 Off-Site Recycling (lbs/year)	1993 On-Site Treatment (lbs/year)	1993 Off-Site Treatment (lbs/year)	1993 Total Wastestream (lbs/year)
ACADIAN SHIPYARD INC. - BOURG, LA	PROPYLENE	95					95						95
ADMIRAL MARINE WORKS INC. - PORT TOWNSEND, WA	ACETONE	11,000				880	11,000		13,700			880	25,580
ALABAMA SHIPYARD INC. - MOBILE, AL	N-BUTYL ALCOHOL	27,755		564		750	27,725	564					28,289
ALABAMA SHIPYARD INC. - MOBILE, AL	TOLUENE	13,113		2,920		2,920	13,113	2,920					16,033
ALABAMA SHIPYARD INC. - MOBILE, AL	XYLENE (MIXED ISOMERS)	21,952		750		750	21,952	769					22,721
ALABAMA SHIPYARD INC. - MOBILE, AL	ZINC COMPOUNDS			750		750	575						575
ATLANTIC DRY DOCK CORP. - JACKSONVILLE, FL	COPPER COMPOUNDS	8,000				250	38,170					330	38,500
ATLANTIC DRY DOCK CORP. - JACKSONVILLE, FL	XYLENE (MIXED ISOMERS)	38,170				250	38,000	330	2,600				40,930
ATLANTIC MARINE INC. - JACKSONVILLE, FL	N-BUTYL ALCOHOL	43,000				2,050	43,000	2,050	1,000				46,050
ATLANTIC MARINE INC. - JACKSONVILLE, FL	ZINC COMPOUNDS	5,800				250	5,800					462	6,262
ATLANTIC MARINE INC. - MOBILE, AL	XYLENE (MIXED ISOMERS)	49,778		43,159		43,159	49,778	43,159					92,937
ATLANTIC MARINE INC. - MOBILE, AL	ZINC COMPOUNDS	11,030				250	11,499						11,499
AVONDALE IND. GRP DIV. - GULFPORT, MS	ACETONE	61,400	250			14,550	61,400	14,550	64,000				139,950
AVONDALE IND. GRP DIV. - GULFPORT, MS	STYRENE	28,700				19,800	28,700	19,800					48,500
AVONDALE IND. INC. MAIN YARD - AVONDALE, LA	1,2,4-TRIMETHYLBENZENE	17,640				5	17,640						17,640
AVONDALE IND. INC. MAIN YARD - AVONDALE, LA	ACETONE	17,880				7,970	17,880	7,970					25,830
AVONDALE IND. INC. MAIN YARD - AVONDALE, LA	BARIUM COMPOUNDS	4,440				750	3,551					500	4,051
AVONDALE IND. INC. MAIN YARD - AVONDALE, LA	CHROMIUM COMPOUNDS	30	37			304,230	70			204,600			204,670
AVONDALE IND. INC. MAIN YARD - AVONDALE, LA	GLYCOL ETHERS	16,580				2,690	15,580	2,690					18,270
AVONDALE IND. INC. MAIN YARD - AVONDALE, LA	MANGANESE	1,140				319,010	1,140			319,010			320,150
AVONDALE IND. INC. MAIN YARD - AVONDALE, LA	XYLENE (MIXED ISOMERS)	25,200				49,400	25,200	49,400					74,600
AVONDALE IND. INC. MAIN YARD - AVONDALE, LA	ZINC COMPOUNDS	10	1,948			5,060	2,200			5,075			7,275
BATH IRON WORKS CORP. - BATH, ME	1,2,4-TRIMETHYLBENZENE	17,890				5,196	17,890	5,200	508				23,598
BATH IRON WORKS CORP. - BATH, ME	CHROMIUM	5	5			72,820	2,150			75,750			77,900
BATH IRON WORKS CORP. - BATH, ME	COPPER	5	250			246,048	400			245,800			246,200
BATH IRON WORKS CORP. - BATH, ME	ETHYLENE GLYCOL					20,200	0				20,200		20,200
BATH IRON WORKS CORP. - BATH, ME	N-BUTYL ALCOHOL	47,918				15,377	47,918	15,380					63,298
BATH IRON WORKS CORP. - BATH, ME	NICKEL	5	5			821,976	2,200			85,050			87,250
BATH IRON WORKS CORP. - BATH, ME	PROPYLENE	250					59						59
BATH IRON WORKS CORP. - BATH, ME	XYLENE (MIXED ISOMERS)	37,650				11,675	37,650	11,675	400				49,725
BATH IRON WORKS CORP. - BRUNSWICK, ME	CHROMIUM	5				15,700	400		4,790	15,450			20,640
BATH IRON WORKS CORP. - BRUNSWICK, ME	COPPER	5				84,430	400		27,780	84,180			112,360
BATH IRON WORKS CORP. - BRUNSWICK, ME	NICKEL	5				22,320	400		7,500	22,070			29,970
BATH IRON WORKS CORP. PORT - 20 COMMERCIAL ST.,	COPPER	5				3,690	400			3,440			3,840
BATH IRON WORKS CORP. PORT - 20 COMMERCIAL ST.,	N-BUTYL ALCOHOL	9,130				2,140	9,130	2,140					11,270
BATH IRON WORKS CORP. PORT - 20 COMMERCIAL ST.,	XYLENE (MIXED ISOMERS)	11,500				2,700	11,500	2,700					14,200
BATH IRON WORKS CORP. PORT - RTE 1, BRUNSWICK,	2-ETHOXYETHANOL	22,200				1,250	22,200	1,250					23,450
BATH IRON WORKS CORP. PORT - RTE 1, BRUNSWICK,	CHROMIUM	5				255	400			42,127			42,527
BATH IRON WORKS CORP. PORT - RTE 1, BRUNSWICK,	COPPER	5	5			260	400						400
BATH IRON WORKS CORP. PORT - RTE 1, BRUNSWICK,	NICKEL	5				255	400			24,388			24,788
BATH IRON WORKS CORP. PORT - RTE 1, BRUNSWICK,	PROPYLENE	5					3						3
BETHLEHEM STEEL CO. - STURGEON BAY, WI	XYLENE (MIXED ISOMERS)	10,806				492	10,806	429					11,235
BETHLEHEM STEEL CORP. - PORT ARTHUR, TX	COPPER COMPOUNDS	8,300				500	8,300					490	8,790
BETHLEHEM STEEL CORP. - PORT ARTHUR, TX	N-BUTYL ALCOHOL	10,000				500	10,000	180	100			40	10,320
BETHLEHEM STEEL CORP. - PORT ARTHUR, TX	PROPYLENE	250					30						30
BETHLEHEM STEEL CORP. - PORT ARTHUR, TX	XYLENE (MIXED ISOMERS)	28,000				1,000	28,000	550	690			110	29,350
BETHLEHEM STEEL CORP. BETH - SPARROWS POINT, M	COPPER COMPOUNDS	11,202	250			14,682	11,202					14,682	25,884
BETHLEHEM STEEL CORP. BETH - SPARROWS POINT, M	N-BUTYL ALCOHOL	11,077				2,897	11,077					2,897	13,974
BETHLEHEM STEEL CORP. BETH - SPARROWS POINT, M	PROPYLENE	1,975					1,975						1,975
BETHLEHEM STEEL CORP. BETH - SPARROWS POINT, M	XYLENE (MIXED ISOMERS)	28,903				7,576	28,903					7,576	36,479
BETHLEHEM STEEL CORP. BETH - SPARROWS POINT, M	ZINC COMPOUNDS	9,717	1,550			12,737	11,267					12,737	24,004
BROWN & ROOT INC. MARINE - HOUSTON, TX	MANGANESE	900	5	72		38,500	10,400			29,100			39,500
CASCADE GENERAL INC. - PORTLAND, OR	COPPER COMPOUNDS	17,514	7,006	14,011		11,207	49,039	11,206					60,245
CASCADE GENERAL INC. - PORTLAND, OR	METHYL ETHYL KETONE	21,738	1,144			1,657	22,882	1,657					24,539
CASCADE GENERAL INC. - PORTLAND, OR	N-BUTYL ALCOHOL	15,777	750			4,004	16,397	4,004					20,401
CASCADE GENERAL INC. - PORTLAND, OR	XYLENE (MIXED ISOMERS)	78,999	4,158			4,734	83,728	4,484					88,212
COLONNAS SHIPYARD INC. - NORFOLK, VA	METHYL ISOBUTYL KETONE	9,000					8,000						8,000
COLONNAS SHIPYARD INC. - NORFOLK, VA	N-BUTYL ALCOHOL	13,000					13,000						13,000
COLONNAS SHIPYARD INC. - NORFOLK, VA	XYLENE (MIXED ISOMERS)	22,000					22,000						22,000
GENERAL DYNAMICS CORP. - GROTON, CT	1,1,1-TRICHLOROETHANE	1,512				8,678	1,512			8,678			10,190
GENERAL DYNAMICS CORP. - GROTON, CT	CHROMIUM COMPOUNDS	161	38			7	206			7			213
GENERAL DYNAMICS CORP. - GROTON, CT	COPPER COMPOUNDS	952	684				1,642						1,642
GENERAL DYNAMICS CORP. - GROTON, CT	FREON 113	11,348				22,462	11,348			22,462			33,810
GENERAL DYNAMICS CORP. - GROTON, CT	LEAD COMPOUNDS	250	366			2,178	556			1,640		538	2,734

Facility	Toxic Chemical	Fugitive Or Non-Point Air Emission (lbs/year)	Discharges to Streams or Bodies of Water (lbs/year)	Releases To On-Site Landfill (lbs/year)	Discharges to POTW (lbs/year)	Transfers to Other Off-Site Locations (lbs/year)	8 1	1993	1993	1993	1993	1993	1993
							Quantity Released (lbs/year)	Off-Site Energy Recovery (lbs/year)	On-Site Recycling (lbs/year)	Off-Site Recycling (lbs/year)	On-Site Treatment (lbs/year)	Off-Site Treatment (lbs/year)	Total Wastestream (lbs/year)
GENERAL DYNAMICS CORP. - GROTON, CT	MANGANESE COMPOUNDS	640					640						640
GENERAL DYNAMICS CORP. - GROTON, CT	METHYL ISOBUTYL KETONE	1,272				9,213	1,272	9,213					10,485
GENERAL DYNAMICS CORP. - GROTON, CT	N-BUTYL ALCOHOL	6,543				14,398	6,543	14,398					20,941
GENERAL DYNAMICS CORP. - GROTON, CT	NICKEL COMPOUNDS	470			1-10		470					8	478
GENERAL DYNAMICS CORP. - GROTON, CT	XYLENE (MIXED ISOMERS)	3,119				16,788	3,119	16,788					19,907
GENERAL DYNAMICS CORP. - NORTH KINGSTOWN, RI	COPPER COMPOUNDS	380					390						390
GENERAL DYNAMICS CORP. - NORTH KINGSTOWN, RI	MANGANESE COMPOUNDS	220					220						220
GENERAL DYNAMICS CORP. - NORTH KINGSTOWN, RI	NICKEL COMPOUNDS	260					260						260
GENERAL DYNAMICS CORP. - NORTH KINGSTOWN, RI	STYRENE	595				854	595				854		1,449
GREINA MACHINE & IRON WORK - HARVEY, LA	N-BUTYL ALCOHOL	14,474				4,333	18,807	4,333					23,140
GREINA MACHINE & IRON WORK - HARVEY, LA	TOLUENE	948				4,333	5,281	4,333					9,614
GREINA MACHINE & IRON WORK - HARVEY, LA	XYLENE (MIXED ISOMERS)	14,811				4,333	19,144	4,333					23,477
HALTER MARINE INC. - LOCKPORT, LA	ISOPROPYL ALCOHOL (MANUFA	14,569				13,235	14,559	13,235					27,794
HALTER MARINE INC. - LOCKPORT, LA	TOLUENE	15,622				13,235	15,622	13,235					28,857
HALTER MARINE INC. - LOCKPORT, LA	XYLENE (MIXED ISOMERS)	27,250				13,235	27,520	13,235					40,755
HALTER MARINE INC. - LOCKPORT, LA	ZINC (FUME OR DUST)	2,686				13,235	15,921	13,235					29,156
HALTER MARINE INC. - MOSS POINT, MS	TOLUENE	13,858				10,333	24,191	10,333					34,524
HALTER MARINE INC. - MOSS POINT, MS	XYLENE (MIXED ISOMERS)	12,090				10,333	22,423	10,333					32,756
HALTER MARINE INC. - MOSS POINT, MS	ZINC (FUME OR DUST)	2,352				10,333	12,685	10,333					23,018
HBC BARGE INC. - BROWNSVILLE, PA	METHYL ETHYL KETONE	5,707				10,957	16,664	10,957					27,621
HBC BARGE INC. - BROWNSVILLE, PA	N-BUTYL ALCOHOL	4,801				1,730	6,531	1,730					8,261
HBC BARGE INC. - BROWNSVILLE, PA	TOLUENE	25,733				10,956	36,689	10,956					47,645
HBC BARGE INC. - BROWNSVILLE, PA	XYLENE (MIXED ISOMERS)	7,819				10,957	18,776	10,957					29,733
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	1,1,1-TRICHLOROETHANE	28,000				1,440	28,000				1,200		29,200
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	CHLORINE	250	380		530		890				530		1,420
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	COPPER COMPOUNDS	2,800		250		7,570	3,800	7,300			500		11,600
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	DICHLOROMETHANE	19,000				1,300	19,000	1,300					20,300
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	FREON 113	6,900				9,840	7,100	2,500			6,900		16,500
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	LEAD COMPOUNDS	250		5		335	1,000	40		20	500	30	1,590
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	MANGANESE COMPOUNDS	250					500						500
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	N-BUTYL ALCOHOL	420,000				110,000	420,000	110,000					530,000
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	NICKEL	250					500						500
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	SULFURIC ACID	2,100				36,680	38,000				26,000	680	64,680
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	TOLUENE	45,000				4,910	45,000	3,100		1,600		210	49,910
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	XYLENE (MIXED ISOMERS)	149,000				28,820	149,000	25,000		3,700		120	177,820
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	ZINC COMPOUNDS	13,100	250	250		135,550	14,900	5,000		130,000	500		150,400
INGALLS SHIPBUILDING INC. - PASCAGOULA, MS	CHROMIUM COMPOUNDS	250	250	5		3,520	1,500	20		10	500	3,000	5,030
INTERMARINE USA - SAVANNAH, GA	ACETONE	91,407				134,988	91,407	68,496	3,927	66,492			230,322
INTERMARINE USA - SAVANNAH, GA	CHROMIUM COMPOUNDS	1,100			11-499	37,607	1,100			37,607			38,707
INTERMARINE USA - SAVANNAH, GA	STYRENE	25,885				60,057	60,370	25,572					85,942
JEFFBOAT - JEFFERSONVILLE, IN	MANGANESE	1,902					1,902						1,902
JEFFBOAT - JEFFERSONVILLE, IN	METHYL ETHYL KETONE	52,354				34,188	52,354	34,188					86,542
JEFFBOAT - JEFFERSONVILLE, IN	N-BUTYL ALCOHOL	26,121					26,121						26,121
JEFFBOAT - JEFFERSONVILLE, IN	TOLUENE	10,892					10,892						10,892
JEFFBOAT - JEFFERSONVILLE, IN	XYLENE (MIXED ISOMERS)	48,068					48,068						48,068
JEFFBOAT - JEFFERSONVILLE, IN	ZINC (FUME OR DUST)					219,050	219,050						219,050
MAKO MARINE INC. - MIAMI, FL	ACETONE	170,000				34,800	170,000	26,000			8,800		204,800
MAKO MARINE INC. - MIAMI, FL	METHYLENEBIS(PHENYLISOCYA												0
MAKO MARINE INC. - MIAMI, FL	STYRENE	78,000				2,500	78,000	2,500					80,500
MCDERMOTT SHIPYARD AMELIA - AMELIA, LA	ACETONE	15,000				5,900	15,000	5,900					20,900
MCDERMOTT SHIPYARD AMELIA - AMELIA, LA	TOLUENE	27,000				11,000	27,000	11,000					38,000
METRO MACHINE CORP. - NORFOLK, VA	COPPER COMPOUNDS	6,351			121	5,580	6,351			2,385	18	3,316	12,070
METRO MACHINE CORP. - NORFOLK, VA	N-BUTYL ALCOHOL	27,903				6,720	27,903					6,720	34,623
METRO MACHINE CORP. - NORFOLK, VA	ZINC COMPOUNDS	2,120			252	1,205	2,120			118	21	1,339	3,598
MID ATLANTIC FAC. - NORFOLK, VA	N-BUTYL ALCOHOL	9,331				3,915	9,331					3,915	13,246
MOSS POINT MARINE INC. - ESCATAWPA, MS	METHYL ETHYL KETONE	14,413				4,082	18,495	4,082			4,082		26,559
MOSS POINT MARINE INC. - ESCATAWPA, MS	N-BUTYL ALCOHOL	27,552				7,776	35,328	7,776		7,776			50,880
MOSS POINT MARINE INC. - ESCATAWPA, MS	XYLENE (MIXED ISOMERS)	30,789				2,532	33,321	2,532		2,532			38,385
MOSS POINT MARINE INC. - ESCATAWPA, MS	ZINC (FUME OR DUST)	40,505				11,664	52,169	11,664		11,664			75,497
NASHVILLE BRIDGE CO. - NASHVILLE, TN	XYLENE (MIXED ISOMERS)	12,755				1,288	12,755	1,288					14,043
NATIONAL STEEL & SHIPBUILD - SAN DIEGO, CA	COPPER COMPOUNDS	200	6		1	4,400	200	4,400				1	4,601
NATIONAL STEEL & SHIPBUILD - SAN DIEGO, CA	N-BUTYL ALCOHOL	63,000				11,000	63,000	11,000					74,000
NATIONAL STEEL & SHIPBUILD - SAN DIEGO, CA	XYLENE (MIXED ISOMERS)	40,000				42,700	40,000	42,700	12,000				94,700
NATIONAL STEEL & SHIPBUILD - SAN DIEGO, CA	ZINC (FUME OR DUST)	1,000	58		6	21,200	1,000	2,200		16,400		6	19,606

Facility	Toxic Chemical	Fugitive	Discharges to	Releases	Discharges to	Transfers to	8 1	1993	1993	1993	1993	1993	1993	1993
		Or Non-Point Air Emission (lbs/year)	Streams or Bodies of Water (lbs/year)	To On-Site Landfill (lbs/year)	POTW (lbs/year)	Other Off-Site Locations (lbs/year)	Quantity Released (lbs/year)	Off-Site Energy Recovery (lbs/year)	On-Site Recycling (lbs/year)	Off-Site Recycling (lbs/year)	On-Site Treatment (lbs/year)	Off-Site Treatment (lbs/year)	Total Wastestream (lbs/year)	
NEW ORLEANS SHIPYARD - WAGGAMAN, LA	STYRENE													0
NEWARK SHIPBUILDING & REPAIR - HOUSTON, TX	1,2-DICHLOROETHANE	255	250				125							146,895
NEWARK SHIPBUILDING & REPAIR - HOUSTON, TX	ACRYLONITRILE	255	250				40			139,568		7,202		46,885
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	1,1,1-TRICHLOROETHANE	46,000				11-499	16,000	46,000	16,000	44,614		2,231		62,023
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	ACETONE	12,250				11-499	18,650	13,000	8,500		11,000		20	32,520
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	AMMONIA	12,000						12,000						12,000
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	BARIUM COMPOUNDS	25,000					20,450	25,000	21,000					46,000
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	COPPER COMPOUNDS	2,900	250	5	11-499	24,030	2,900	21,000			130	3,700		27,730
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	DICHLOROMETHANE	15,000				4,500	15,000	4,500						19,500
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	ETHYLBENZENE	11,300				27,422	11,000	13,000		15,000				39,000
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	ETHYLENE GLYCOL	250				500-999		11			25,000	2,000		27,011
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	FREON 113					100,300				100,700				100,700
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	HYDROCHLORIC ACID	250					41				10,000			10,041
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	LEAD COMPOUNDS	250	5	250	1-10	1,005	90	500			130	30		750
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	MANGANESE COMPOUNDS	250					300							300
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	METHYLENEBIS(PHENYLISOCYA	250					20							20
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	N-BUTYL ALCOHOL	83,000				11-499	80,850	83,000	64,000		17,000		42	164,042
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	NICKEL COMPOUNDS	1,100	250	250	11-499	8,150	1,100	4,300			150	3,700		9,250
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	SULFURIC ACID	1,000					250	970			420	330,000		331,390
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	TRICHLOROETHYLENE	11,000				11-499	3,300	11,000	3,300				11	14,311
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	XYLENE (MIXED ISOMERS)	142,000				11-499	241,850	142,000	213,000		27,000		180	382,180
NEWPORT NEWS SHIPBUILDING - NEWPORT NEWS, VA	ZINC COMPOUNDS	21,000	250	5	11-499	31,550	21,300	21,300			160	11,200		53,960
NORSHIPCO CORP. - NORFOLK, VA	CHROMIUM COMPOUNDS	500			1-10	1,040	1,100						5	1,105
NORSHIPCO CORP. - NORFOLK, VA	COPPER COMPOUNDS	250			500-999	20,000	1,500			20,000		1,000		22,500
NORSHIPCO CORP. - NORFOLK, VA	METHYL ISOBUTYL KETONE	32,000				3,900	32,000	3,900	700					36,600
NORSHIPCO CORP. - NORFOLK, VA	N-BUTYL ALCOHOL	34,000				3,900	34,000	3,900	700					38,600
NORSHIPCO CORP. - NORFOLK, VA	XYLENE (MIXED ISOMERS)	163,000				7,800	163,000	7,800	3,300					174,100
NORSHIPCO CORP. - NORFOLK, VA	ZINC COMPOUNDS	250			500-999		500					1,000		1,500
NORSHIPCO & DRYDOCK CORP. - NORFOLK, VA	N-BUTYL ALCOHOL	19,000					19,000							19,000
NORSHIPCO & DRYDOCK CORP. - NORFOLK, VA	XYLENE (MIXED ISOMERS)	21,000					21,000							21,000
PETERSON BUILDERS INC. - STURGEON BAY, WI	XYLENE (MIXED ISOMERS)	9,127				11-499	3,456	9,127			2,946			12,073
PLATZER SHIPYARD INC. - HOUSTON, TX	BENZENE	67,551					67,551					215		67,766
PLATZER SHIPYARD INC. - HOUSTON, TX	METHANOL	27,506					27,506					244		27,750
PLATZER SHIPYARD INC. - HOUSTON, TX	METHYL TERT-BUTYL ETHER	111,771					111,771					196		111,967
PLATZER SHIPYARD INC. - HOUSTON, TX	N-BUTYL ALCOHOL	15,740					15,740					40		15,780
PLATZER SHIPYARD INC. - HOUSTON, TX	P-XYLENE	2,406					2,406					95		2,501
PLATZER SHIPYARD INC. - HOUSTON, TX	STYRENE	5,595					5,595					289		5,884
PLATZER SHIPYARD INC. - HOUSTON, TX	XYLENE (MIXED ISOMERS)	29,550					29,550			12,160		312		42,022
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	2-ETHOXYETHANOL	29,190					29,190							29,190
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	ACETONE	8,476				811	9,166	520	414					10,100
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	COPPER COMPOUNDS	4,490					4,490							4,490
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	DICHLOROMETHANE	14,634				740	17,000							17,000
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	ETHYLENE GLYCOL	685				2,529	7,910		1,310					9,220
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	N-BUTYL ALCOHOL	68,265				6,161	69,624	4,803	4,973					79,400
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME	XYLENE (MIXED ISOMERS)	47,235				11,204	48,303	10,137	7,460					65,900
SAN FRANCISCO DRY DOCK - SAN FRANCISCO, CA	COPPER	0				3,747					747		747	1,494
SOUTHWEST MARINE INC. - SAN DIEGO, CA	N-BUTYL ALCOHOL	500				110		110	110				110	330
SOUTHWEST MARINE SAN PEDRO - TERMINAL ISLAND,	NAPHTHALENE	21,696				2,411							2,411	2,411
TODD PACIFIC SHIPYARDS - SEATTLE, WA	COPPER COMPOUNDS	10	500		1-10	1,500	24				1	1,615		1,640
TODD PACIFIC SHIPYARDS - SEATTLE, WA	N-BUTYL ALCOHOL	17,865				424	17,865	424	108					18,397
TODD PACIFIC SHIPYARDS - SEATTLE, WA	XYLENE (MIXED ISOMERS)	71,286				2,127	71,286	2,127	8,169					81,582
TODD PACIFIC SHIPYARDS - SEATTLE, WA	ZINC COMPOUNDS	10	500		1-10	500	32				2	680		714
TRINITY IND. - GULFPORT, MS	ACETONE	9,059				10,134	19,193	10,134						29,327
TRINITY IND. - GULFPORT, MS	TOLUENE	9,059				10,134	19,193	10,134						29,327
TRINITY IND. - GULFPORT, MS	XYLENE (MIXED ISOMERS)	13,168				10,134	23,302	10,134						33,436
TRINITY IND. INC. - BEAUMONT, TX	2-ETHOXYETHANOL	11,276				3,951	20,276	9,000						29,276
TRINITY IND. INC. - BEAUMONT, TX	ISOPROPYL ALCOHOL (MANUFA	11,395				9,000	20,395	9,000						29,395
TRINITY IND. INC. - BEAUMONT, TX	XYLENE (MIXED ISOMERS)	17,680				14,250	31,930	14,250						46,180
TRINITY MARINE GROUP - MADISONVILLE, LA	ISOPROPYL ALCOHOL (MANUFA	12,145				3,354	15,499	3,354						18,853
TRINITY MARINE GROUP - MADISONVILLE, LA	METHYL ETHYL KETONE	8,150				2,036	10,186	2,036						12,222
TRINITY MARINE GROUP - MADISONVILLE, LA	N-BUTYL ALCOHOL	6,890				1,722	8,612	1,722						10,334
TRINITY MARINE GROUP - MADISONVILLE, LA	TOLUENE	5,564				3,355	8,919	3,355						12,274
TRINITY MARINE GROUP - MADISONVILLE, LA	XYLENE (MIXED ISOMERS)	40,000				5,030	45,030	5,030						50,060
TRINITY MARINE GROUP - MADISONVILLE, LA	ZINC (FUME OR DUST)	10				48,000	10			64,600				64,610

Facility	Toxic Chemical	Fugitive Or Non-Point Air Emission (lbs/year)	Discharges to Streams or Bodies of Water (lbs/year)	Releases To On-Site Landfill (lbs/year)	Discharges to POTW (lbs/year)	Transfers to Other Off-Site Locations (lbs/year)	8.1	1993	1993 On-Site Recycling (lbs/year)	1993 Off-Site Recycling (lbs/year)	1993 On-Site Treatment (lbs/year)	1993 Off-Site Treatment (lbs/year)	1993 Total Wastestream (lbs/year)
							1993 Quantity Released (lbs/year)	1993 Energy Recovery (lbs/year)					
WEST STATE INC. - PORTLAND, OR	N-BUTYL ALCOHOL	63,513				12,881	63,513	12,881					76,394
WEST STATE INC. - PORTLAND, OR	XYLENE (MIXED ISOMERS)	102,068				25,660	102,068	25,660					127,748
WEST STATE INC. - PORTLAND, OR	ZINC COMPOUNDS					0							0
WEST STATE INC. - PORTLAND, OR	ZINC (FUME OR DUST)					0	22,005						22,005

SECTION B

Facility	EPA Facility	8.1														
		Fugitive Or Non-Point Air Emissions (lbs/year)	Stack Or Point Air Emissions (lbs/year)	Discharge to Streams or Bodies of Water (lbs/year)	Releases To On-Site Landfill (lbs/year)	Discharges POTW (lbs/year)	Transfers to Other Off-site Locations (lbs/year)	1994 Quantity Released (lbs/year)	1994 Off-site Energy (lbs/year)	1994 On-site Recycling (lbs/year)	1994 Off-site Recycling (lbs/year)	1994 On-site Treatment (lbs/year)	1994 Off-site Treatment (lbs/year)	1994 Total Wastewater (lbs/year)		
GUNDERSON INC	111 TRICHLOROETHANE	57,000	0	0	0	0	2,000	59,000	0	0	0	0	2,000	61,000		
INGALLS SHIPBUILDING INC	111 TRICHLOROETHANE	19,000	0	0	0	0	1,915	20,915	0	0	1,800	0	120	22,835		
NEWPORT NEWS SHIPBUILDING	111 TRICHLOROETHANE	46,000	0	0	0	0	3,700	49,700	0	0	3,700	0	100	53,500		
U.S. NAVY NORFOLK NAVAL SHIPYARD	111 TRICHLOROETHANE	11,000	0	10	0	0	12,000	23,010	0	0	0	0	12,000	35,010		
PLATZER SHIPYARD INC	12 DICHLOROETHANE	499	7,600	0	0	0	10	8,109	0	0	0	120	3	8,232		
NEWARK SHIPBUILDING & REP	12 DICHLOROETHANE	499	10	250	0	0	52,132	52,891	0	0	52,132	2,492	0	107,515		
AVONDALE IND. INC. MAIN YA	12 4-TRIMETHYLBENZENE	6,440	0	0	0	0	10,150	16,590	10,150	0	0	0	0	26,740		
BATH IRON WORKS CORP	12 4-TRIMETHYLBENZENE	15,070	0	0	0	0	8,353	23,423	8,353	0	0	0	0	31,776		
INGALLS SHIPBUILDING INC	12 4-TRIMETHYLBENZENE	130,000	0	0	0	0	23,600	153,600	21,000	0	0	0	2,600	177,200		
NATIONAL STEEL & SHIPBUILD	12 4-TRIMETHYLBENZENE	25,600	0	0	0	0	14,000	39,600	14,000	2,100	0	0	0	55,700		
BATH IRON WORKS CORP. PORT	2 ETHOXYETHANOL	14,004	0	0	0	0	4,732	18,736	4,732	0	0	0	0	23,468		
BROWN & ROOT INC. MARINE F	BARIUM	10	0	499	0	0	750	1,259	0	0	0	0	0	1,259		
NEWPORT NEWS SHIPBUILDING	BARIUM COMPOUNDS	28,000	0	0	0	0	21,050	49,050	0	0	0	0	21,000	70,050		
PLATZER SHIPYARD INC	BENZENE	18,350	0	0	0	0	61,820	80,170	61,800	0	0	330	4	142,304		
PLATZER SHIPYARD INC	CARBON TETRACHLORIDE	499	6,500	0	0	0	10	7,009	0	0	0	120	3	7,132		
INGALLS SHIPBUILDING INC	CHLORINE	250	0	360	0	0	0	610	0	0	0	430	1,040			
BATH IRON WORKS CORP	CHROMIUM	10	0	0	0	0	153,200	153,210	0	4,190	15,070	0	0	172,470		
BATH IRON WORKS CORP	CHROMIUM	10	0	5	0	10	63,173	63,198	0	0	69,840	0	0	133,038		
BATH IRON WORKS CORP. PORT	CHROMIUM	5	0	5	0	0	37,742	37,752	0	0	38,696	0	0	76,448		
GUNDERSON INC	CHROMIUM	0	0	0	0	0	28,000	28,000	0	0	27,000	0	0	55,000		
AVONDALE IND. INC. MAIN YA	CHROMIUM COMPOUNDS	85	0	5	0	5	359,600	359,695	0	0	359,740	0	3	719,438		
GENERAL DYNAMICS CORP. ELE	CHROMIUM COMPOUNDS	147	0	36	0	0	15	198	0	0	15	0	0	213		
INGALLS SHIPBUILDING INC	CHROMIUM COMPOUNDS	250	0	250	0	0	165	665	10	0	10	500	10	1,195		
J. RAY McDERMOTT INC. SHIPYARD	CHROMIUM COMPOUNDS	499	0	0	0	0	0	499	0	0	0	0	0	499		
NEWPORT NEWS SHIPBUILDING	CHROMIUM COMPOUNDS	7,750	0	250	250	0	10,850	19,100	0	0	0	1,500	11,000	31,600		
NORSHIPCO CORP	CHROMIUM COMPOUNDS	500	0	0	0	0	750	1,250	0	0	0	0	5	1,255		
BATH IRON WORKS CORP	COPPER	5	0	5	0	0	264,148	264,158	0	0	265,357	0	0	529,515		
BATH IRON WORKS CORP	COPPER	10	0	0	0	0	100,330	100,340	0	32,815	100,080	0	0	233,235		
BATH IRON WORKS CORP. PORT	COPPER	5	0	5	0	0	255	265	0	0	0	0	0	265		
GUNDERSON INC	COPPER	0	0	0	0	0	9,000	9,000	0	0	9,000	0	0	18,000		
ATLANTIC MARINE INC	COPPER COMPOUNDS	41,618	0	5	1,665	0	1,665	44,953	0	0	0	0	0	44,953		
AVONDALE IND. INC. MAIN YA	COPPER COMPOUNDS	730	0	0	0	10	435,480	436,220	0	0	335,500	0	0	771,720		
BETHLEHEM STEEL CORP. BETH	COPPER COMPOUNDS	27,000	0	1,900	0	0	55,000	83,900	0	0	0	20,000	0	103,900		
CASCADE GENERAL INC	COPPER COMPOUNDS	22,783	0	5,113	10,225	0	20,531	58,652	20,531	0	0	0	0	79,183		
GENERAL DYNAMICS CORP. ELE	COPPER COMPOUNDS	1,590	0	249	0	10	0	1,849	0	0	0	0	0	1,849		
GENERAL DYNAMICS CORP. ELE	COPPER COMPOUNDS	961	0	0	0	0	0	961	0	0	0	0	0	961		
INGALLS SHIPBUILDING INC	COPPER COMPOUNDS	250	0	0	0	0	8,355	8,605	7,200	0	0	500	900	17,205		
J. RAY McDERMOTT INC. SHIPYARD	COPPER COMPOUNDS	499	0	0	0	0	0	499	0	0	0	0	0	499		
NEWPORT NEWS SHIPBUILDING	COPPER COMPOUNDS	8,800	0	250	250	0	25,600	34,900	0	0	0	100	25,000	60,000		
NORSHIPCO CORP	COPPER COMPOUNDS	250	0	0	0	0	15,000	15,250	0	0	15,000	0	1,000	31,250		
SAN FRANCISCO DRY DOCK SAN	COPPER COMPOUNDS	0	0	9	0	0	1,485	1,494	1,485	0	0	0	0	2,979		
TODD PACIFIC SHIPYARDS	COPPER COMPOUNDS	499	499	500	0	10	1,651	3,159	0	0	0	0	2,468	5,627		
U.S. NAVY NORFOLK NAVAL SHIPYARD	COPPER COMPOUNDS	1,200	0	999	0	999	4,800	7,998	0	0	0	0	4,800	12,798		
PLATZER SHIPYARD INC	CUMENE	499	3,600	0	0	0	10	4,109	0	0	0	165	3	4,277		
INGALLS SHIPBUILDING INC	DICHLOROMETHANE	21,000	0	0	0	0	1,460	22,460	870	0	0	0	220	23,550		
NEWPORT NEWS SHIPBUILDING	DICHLOROMETHANE	27,000	0	0	0	0	4,000	31,000	4,000	0	0	0	0	35,000		
U.S. NAVY NORFOLK NAVAL SHIPYARD	DICHLOROMETHANE	3,400	1,200	10	0	0	250	4,860	0	0	0	0	490	5,350		
NEWPORT NEWS SHIPBUILDING	DICHLOROTETRAFLUOROETHANE	250	0	0	0	0	0	250	0	0	0	0	0	250		
NEWPORT NEWS SHIPBUILDING	ETHYLBENZENE	7,700	0	0	0	0	18,600	26,300	8,200	0	10,000	0	0	44,500		
PLATZER SHIPYARD INC	ETHYLBENZENE	2,050	0	0	0	0	710	2,760	700	170	0	65	3	3,698		
NEWPORT NEWS SHIPBUILDING	ETHYLENE GLYCOL	250	0	0	0	0	4,600	4,850	0	0	0	25,000	130	30,440		
U.S. NAVY NORFOLK NAVAL SHIPYARD	ETHYLENE GLYCOL	1,200	0	0	0	0	3,600	4,800	0	0	0	0	3,600	8,400		
PLATZER SHIPYARD INC	ETHYLENE GLYCOL	499	499	0	0	0	10	1,008	0	0	0	200	3	1,211		
GENERAL DYNAMICS CORP. ELE	FREON 113	31,735	0	0	0	0	17,280	49,015	0	0	17,280	0	0	66,295		
NEWPORT NEWS SHIPBUILDING	FREON 113	19,000	0	0	0	0	131,000	150,000	0	0	130,000	0	0	280,000		
U.S. NAVY NORFOLK NAVAL SHIPYARD	FREON 113	11,000	0	0	0	0	5,600	16,600	0	0	0	0	5,600	22,200		
AVONDALE IND. INC. MAIN YA	GLYCOL ETHERS	31,430	0	0	0	0	25,380	56,810	25,380	0	0	0	0	82,190		
ALABAMA SHIPYARD INC	ISOPROPYL ALCOHOL	1,882	9,264	0	0	0	1,261	12,407	1,261	0	0	0	0	13,668		
HALTER MARINE INC. LOCKPORT	ISOPROPYL ALCOHOL (MANUFACTURING, ST	10,950	0	0	0	0	3,960	14,910	3,960	786	0	0	0	19,656		
GENERAL DYNAMICS CORP. ELE	LEAD COMPOUNDS	250	0	113	0	0	2,473	2,836	0	0	1,726	0	747	5,309		
INGALLS SHIPBUILDING INC	LEAD COMPOUNDS	250	0	0	0	0	275	525	20	0	10	500	10	1,065		
NEWPORT NEWS SHIPBUILDING	LEAD COMPOUNDS	250	0	250	0	0	16,850	17,150	0	0	0	90	320	17,560		
BROWN & ROOT INC. MARINE F	MANGANESE	9,200	0	0	0	0	20,850	30,050	0	0	20,900	0	0	50,950		
GRETHA MACHINE & IRON WORK	MANGANESE	474	0	0	0	0	0	474	0	0	0	0	0	474		
GUNDERSON INC	MANGANESE	250	0	0	0	0	230,000	230,250	0	0	230,000	0	0	460,250		
JEFFBOAT	MANGANESE	1,865	0	0	0	0	0	1,865	0	0	0	0	0	1,865		
TRINITY MARINE GROUP MADIS	MANGANESE	23	0	0	0	0	0	23	0	0	0	0	0	23		
GENERAL DYNAMICS CORP. ELE	MANGANESE COMPOUNDS	912	0	0	0	0	0	912	0	0	0	0	0	912		
GENERAL DYNAMICS CORP. ELE	MANGANESE COMPOUNDS	402	0	0	0	0	0	402	0	0	0	0	0	402		
INGALLS SHIPBUILDING INC	MANGANESE COMPOUNDS	250	0	0	0	0	0	250	0	0	0	0	0	250		
J. RAY McDERMOTT INC. SHIPYARD	MANGANESE COMPOUNDS	499	0	0	0	0	0	499	0	0	0	0	0	499		

Facility	Toxic Chemical	81											1994 On-site Recycling (lbs/year)	1994 Off-site Recycling (lbs/year)	1994 On-site Treatment (lbs/year)	1994 Off-site Treatment (lbs/year)	1994 Total Wastewater (lbs/year)
		Fugitive Or Non-Point Air Emissions (lbs/year)	Stack Or Point Air Emissions (lbs/year)	Discharge to Streams or Bodies of Water (lbs/year)	Releases To On-Site Landfill (lbs/year)	Discharges POTW (lbs/year)	Transfers to Other Off-Site Locations (lbs/year)	1994 Quantity Released (lbs/year)	1994 Off-site Energy (lbs/year)	1994 On-site Recycling (lbs/year)	1994 Off-site Recycling (lbs/year)	1994 On-site Treatment (lbs/year)					
NEWPORT NEWS SHIPBUILDING	MANGANESE COMPOUNDS	250	0	250	250	0	0	750	0	0	0	0	0	0	0	0	750
J RAY MCDERMOTT INC SHIPYARD	METHANOL	9,800	0	0	0	0	4,200	14,000	4,200	0	0	0	0	0	0	0	18,200
NEWARK SHIPBUILDING & REP	METHANOL	255	0	250	0	0	46,200	46,705	0	0	46,200	2,384	0	0	0	0	95,289
PLATZER SHIPYARD INC	METHANOL	7,450	0	0	0	0	10	7,460	0	0	0	400	0	0	0	0	7,863
GUNDERSON INC	METHYL ETHYL KETONE	28,000	0	0	0	0	0	28,000	0	0	0	0	0	0	0	0	28,000
HALTER MARINE INC LOCKPORT	METHYL ETHYL KETONE	8,987	0	0	0	0	3,264	12,251	3,264	3,365	0	0	0	0	0	0	18,880
HBC BARGE INC	METHYL ETHYL KETONE	10,549	0	0	0	0	2,638	13,187	2,638	0	0	0	0	0	0	0	15,825
JEFFBOAT	METHYL ETHYL KETONE	52,343	0	0	0	0	42,134	94,477	42,134	0	0	0	0	0	0	0	136,611
MOSS POINT MARINE INC	METHYL ETHYL KETONE	6,242	0	0	0	0	5,754	11,996	5,754	0	0	0	0	0	0	0	17,750
ATLANTIC DRY DOCK CORP	METHYL ISOBUTYL KETONE	16,550	0	0	0	0	390	16,940	390	110	0	0	0	0	0	0	17,440
COLONNAS SHIPYARD INC	METHYL ISOBUTYL KETONE	8,500	0	0	0	0	0	8,500	0	0	0	0	0	0	0	0	8,500
NORSHIPCO CORP	METHYL ISOBUTYL KETONE	27,000	0	0	0	0	1,500	28,500	1,500	500	0	0	0	0	0	0	30,500
PLATZER SHIPYARD INC	METHYL ISOBUTYL KETONE	14,000	999	0	0	0	10	15,009	0	0	0	6	3	0	0	0	15,018
PLATZER SHIPYARD INC	METHYL TERT-BUTYL ETHER	41,650	0	0	0	0	10	41,660	0	0	0	330	3	0	0	0	41,993
MAKO MARINE INC	METHYLENEBIS(PHENYLISOCYANATE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEWPORT NEWS SHIPBUILDING	MOLYBDENUM TRIOXIDE	0	10	0	0	0	0	10	0	0	0	0	0	0	0	0	10
ATLANTIC MARINE INC	N-BUTYL ALCOHOL	27,850	0	0	0	0	0	27,850	0	0	0	0	0	0	0	0	27,850
ATLANTIC MARINE INC	N-BUTYL ALCOHOL	20,200	0	0	0	0	470	20,670	470	1,060	0	0	0	0	0	0	22,200
BATH IRON WORKS CORP	N-BUTYL ALCOHOL	42,850	0	0	0	0	23,756	66,606	23,756	0	0	0	0	0	0	0	90,362
BATH IRON WORKS CORP PORT	N-BUTYL ALCOHOL	8,123	0	0	0	0	2,464	10,587	2,464	0	0	0	0	0	0	0	13,051
BETHLEHEM STEEL CORP SABI	N-BUTYL ALCOHOL	28,000	0	0	0	0	4,300	32,300	0	0	0	0	0	0	4,000	0	36,300
CASCADE GENERAL INC	N-BUTYL ALCOHOL	13,310	0	1,221	1,221	0	1,100	16,852	1,100	0	0	0	0	0	0	0	17,952
COLONNAS SHIPYARD INC	N-BUTYL ALCOHOL	12,500	0	0	0	0	0	12,500	0	0	0	0	0	0	0	0	12,500
GENERAL DYNAMICS CORP ELE	N-BUTYL ALCOHOL	8,653	0	0	0	0	2,627	9,480	2,649	0	0	0	0	0	0	78	12,107
GRETNA MACHINE & IRON WORK	N-BUTYL ALCOHOL	10,304	0	0	0	0	3,685	13,989	3,686	524	0	0	0	0	0	0	18,219
INGALLS SHIPBUILDING INC	N-BUTYL ALCOHOL	360,000	0	0	0	0	64,000	424,000	57,000	0	0	0	0	0	7,000	0	488,000
JEFFBOAT	N-BUTYL ALCOHOL	33,834	0	0	0	0	0	33,834	0	0	0	0	0	0	0	0	33,834
J RAY MCDERMOTT INC SHIPYARD	N-BUTYL ALCOHOL	8,100	0	0	0	0	3,500	11,600	3,500	0	0	0	0	0	0	0	15,100
MOSS POINT MARINE INC	N-BUTYL ALCOHOL	11,841	0	0	0	0	11,015	22,856	11,015	0	0	0	0	0	0	0	33,871
NATIONAL STEEL & SHIPBUILD	N-BUTYL ALCOHOL	54,800	0	0	0	0	11,000	65,800	11,000	0	0	0	0	0	0	0	76,800
NEWPORT NEWS SHIPBUILDING	N-BUTYL ALCOHOL	55,000	0	0	0	0	78,800	133,800	62,000	0	16,000	0	100	0	0	0	211,900
NORSHIPCO CORP	N-BUTYL ALCOHOL	25,000	0	0	0	0	2,000	27,000	2,000	500	0	0	0	0	0	0	29,500
NORSHIPCO & DRYDOCK CORP	N-BUTYL ALCOHOL	15,000	0	0	0	0	750	15,750	750	0	0	0	0	0	0	0	16,500
PLATZER SHIPYARD INC	N-BUTYL ALCOHOL	2,600	0	0	0	0	10	2,610	0	0	0	70	4	0	0	0	2,684
TODD PACIFIC SHIPYARDS	N-BUTYL ALCOHOL	11,303	0	0	0	0	687	11,970	687	0	0	0	0	0	0	0	12,637
U S NAVY NORFOLK NAVAL SHIPYARD	N-BUTYL ALCOHOL	22,000	2,300	0	0	0	22,005	46,305	0	1,600	0	0	0	0	22,000	0	69,905
BATH IRON WORKS CORP	NICKEL	5	0	5	0	0	62,427	62,437	0	0	67,502	0	0	0	0	0	129,939
BATH IRON WORKS CORP	NICKEL	10	0	0	0	0	21,295	21,305	0	6,500	21,045	0	0	0	0	0	48,850
BATH IRON WORKS CORP PORT	NICKEL	5	0	5	0	0	21,955	21,965	0	0	22,400	0	0	0	0	0	44,365
GUNDERSON INC	NICKEL	0	0	0	0	0	37,000	37,000	0	0	37,000	0	0	0	0	0	74,000
INGALLS SHIPBUILDING INC	NICKEL	250	0	0	0	0	0	250	0	0	0	0	0	0	0	0	250
GENERAL DYNAMICS CORP ELE	NICKEL COMPOUNDS	697	0	34	0	10	0	741	0	0	0	0	0	0	0	0	741
GENERAL DYNAMICS CORP ELE	NICKEL COMPOUNDS	356	0	0	0	0	0	356	0	0	0	0	0	0	0	0	356
J RAY MCDERMOTT INC SHIPYARD	NICKEL COMPOUNDS	499	0	0	0	0	0	499	0	0	0	0	0	0	0	0	499
NEWPORT NEWS SHIPBUILDING	NICKEL COMPOUNDS	39,000	0	250	0	0	17,200	56,700	0	0	0	150	17,000	0	0	0	73,850
ACADIAN SHIPYARD INC	PROPYLENE	500	0	0	0	0	0	500	0	0	0	0	0	0	0	0	500
BATH IRON WORKS CORP	PROPYLENE	57	0	0	0	0	0	57	0	0	0	0	0	0	0	0	57
BATH IRON WORKS CORP PORT	PROPYLENE	5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
BETHLEHEM STEEL CORP BETH	PROPYLENE	250	0	0	0	0	0	250	0	0	0	0	0	0	0	0	250
BETHLEHEM STEEL CORP SABI	PROPYLENE	250	0	0	0	0	0	250	0	0	0	0	0	0	0	0	250
ADMIRAL MARINE WORKS INC	STYRENE	500	0	0	0	0	300	800	0	0	0	0	300	0	0	0	1,100
AVONDALE IND GRP DIV	STYRENE	21,700	0	0	0	0	24,000	45,700	24,000	0	0	0	0	0	0	0	69,700
GENERAL DYNAMICS CORP ELE	STYRENE	378	0	0	0	0	30	408	0	0	0	0	30	0	0	0	438
INTERMARINE USA	STYRENE	25,571	0	0	0	0	39,257	64,828	21,565	0	0	0	0	0	0	0	86,393
MAKO MARINE INC	STYRENE	66,000	0	0	0	0	0	66,000	0	0	0	0	0	0	0	0	66,000
NEW ORLEANS SHIPYARD	STYRENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEWARK SHIPBUILDING & REP	STYRENE	255	0	250	0	0	46,625	47,130	0	0	46,625	2,406	0	0	0	0	96,161
PLATZER SHIPYARD INC	STYRENE	6,850	0	0	0	0	10	6,860	0	0	0	480	3	0	0	0	7,343
INGALLS SHIPBUILDING INC	SULFURIC ACID	950	0	0	0	0	17,730	18,680	0	0	0	0	0	0	2,700	0	21,380
U S NAVY NORFOLK NAVAL SHIPYARD	SULFURIC ACID	10	499	0	0	0	1,700	2,209	0	0	0	1,100	1,700	0	0	0	5,009
ALABAMA SHIPYARD INC	TOLUENE	19,363	0	0	0	0	0	19,363	0	0	0	0	0	0	0	0	19,363
ATLANTIC MARINE INC	TOLUENE	11,156	0	0	0	0	3,150	14,305	3,150	2,410	0	0	0	0	0	0	19,865
BOLLINGER SHIPYARDS INC	TOLUENE	19,000	0	0	0	0	1,300	20,300	0	0	1,300	0	0	0	0	0	21,600
GUNDERSON INC	TOLUENE	48,000	0	0	0	0	9,250	57,250	9,000	20,000	0	0	90	0	0	0	86,340
INGALLS SHIPBUILDING INC	TOLUENE	70,000	0	0	0	0	6,190	82,190	3,300	0	2,100	0	790	0	0	0	88,380
J RAY MCDERMOTT INC SHIPYARD	TOLUENE	28,000	0	0	0	0	12,000	40,000	12,000	0	0	0	0	0	0	0	52,000
PLATZER SHIPYARD INC	TOLUENE	5,950	0	0	0	0	217,710	223,660	217,700	330	0	220	3	0	0	0	441,913
TRINITY IND	TOLUENE	7,409	7,408	0	0	0	12,000	20,817	12,000	0	0	0	0	0	0	0	38,817
U S NAVY NORFOLK NAVAL SHIPYARD	TOLUENE	9,800	999	10	0	0	15,010	25,819	0	0	0	0	15,000	0	0	0	40,819
NEWPORT NEWS SHIPBUILDING	TRICHLOROETHYLENE	16,000	0	0	0	0	1,350	17,350	0	0	1,100	0	100	0	0	0	18,550
PLATZER SHIPYARD INC	VINYL ACETATE	499	9,700	0	0	0	10	10,209	0	0	0	280	3	0	0	0	10,492

Facility	Toxic Chemical	81											1994 On-site Recycling (lbs/year)	1994 Off-site Recycling (lbs/year)	1994 On-site Treatment (lbs/year)	1994 Off-site Treatment (lbs/year)	1994 Total Wastewater (lbs/year)
		Fugitive Or Non-Point Air Emissions (lbs/year)	Stack Or Point Air Emissions (lbs/year)	Discharge to Streams or Bodies of Water (lbs/year)	Releases To On-Sit Landfill (lbs/year)	Discharges POTW (lbs/year)	Transfers to Other Off-sit Locations (lbs/year)	1994 Quantity Released (lbs/year)	1994 Off-site Energy (lbs/year)	1994 On-site Recycling (lbs/year)	1994 Off-site Recycling (lbs/year)	1994 On-site Treatment (lbs/year)					
US NAVY NORFOLK NAVAL SHIPYARD	XYLENE	32,000	2,400	0	0	0	21,010	55,410	0	1,600	0	0	21,000	0	0	0	78,010
ALABAMA SHIPYARD INC	XYLENE (MIXED ISOMERS)	31,960	0	0	0	0	1,172	33,132	1,172	0	0	0	0	0	0	0	34,304
ATLANTIC DRY DOCK CORP	XYLENE (MIXED ISOMERS)	37,750	0	0	0	0	785	38,535	785	220	0	0	0	0	0	0	39,540
ATLANTIC MARINE INC	XYLENE (MIXED ISOMERS)	10,700	12,800	0	0	0	470	23,970	470	1,190	0	0	0	0	0	0	25,630
ATLANTIC MARINE INC	XYLENE (MIXED ISOMERS)	123,535	0	0	0	0	28,622	152,157	28,622	1,010	0	0	0	0	0	0	181,789
AVONDALE IND INC MAIN YA	XYLENE (MIXED ISOMERS)	20,170	0	0	0	0	40,610	60,780	40,610	0	0	0	0	0	0	0	101,390
BATH IRON WORKS CORP	XYLENE (MIXED ISOMERS)	13,756	0	0	0	0	7,824	21,380	7,825	0	0	0	0	0	0	0	29,005
BETH EHEM STEEL CORP BETH	XYLENE (MIXED ISOMERS)	96,000	0	0	0	0	14,000	110,000	0	0	0	0	14,000	0	0	0	124,000
BETHLEHEM STEEL CORP SABI	XYLENE (MIXED ISOMERS)	19,000	0	0	0	0	3,020	22,020	3,000	440	0	0	0	0	0	0	25,460
BOLLINGER QUICK REPAIR INC	XYLENE (MIXED ISOMERS)	12,000	0	0	0	0	250	12,250	0	0	400	0	0	0	0	0	12,650
BOLLINGER SHIPYARDS INC	XYLENE (MIXED ISOMERS)	15,000	0	0	0	0	250	15,250	0	0	150	0	0	0	0	0	15,400
BOLLINGER SHIPYARDS INC	XYLENE (MIXED ISOMERS)	15,000	0	0	0	0	2,200	17,200	0	0	2,200	0	0	0	0	0	19,400
CASCADE GENERAL INC	XYLENE (MIXED ISOMERS)	65,548	0	3,231	6,462	0	927	76,168	927	0	0	0	0	0	0	0	77,095
COLONNAS SHIPYARD INC	XYLENE (MIXED ISOMERS)	22,000	0	0	0	0	0	22,000	0	0	0	0	0	0	0	0	22,000
EQUITABLE HALTER	XYLENE (MIXED ISOMERS)	10,962	0	0	0	0	2,191	13,153	2,191	0	0	0	0	0	0	0	15,344
GENERAL DYNAMICS CORP ELE	XYLENE (MIXED ISOMERS)	2,916	0	0	0	0	23,025	25,941	20,154	0	0	0	2,871	0	0	0	48,966
GREYNA MACHINE & IRON WORK	XYLENE (MIXED ISOMERS)	15,281	0	0	0	0	5,543	20,824	5,544	788	0	0	0	0	0	0	27,154
GUNDERSON INC	XYLENE (MIXED ISOMERS)	70,000	0	0	0	0	250	70,250	76	0	0	0	0	0	0	0	70,326
HALTER MARINE INC LOCKPOR	XYLENE (MIXED ISOMERS)	24,398	0	0	0	0	9,180	33,578	9,180	0	0	0	0	0	0	0	42,758
HALTER MARINE INC MOSS PO	XYLENE (MIXED ISOMERS)	11,599	0	0	0	0	9,240	20,839	9,240	4,015	0	0	0	0	0	0	34,094
HBC BARGE INC	XYLENE (MIXED ISOMERS)	18,846	0	0	0	0	4,712	23,558	4,711	0	0	0	0	0	0	0	28,269
INGALLS SHIPBUILDING INC	XYLENE (MIXED ISOMERS)	69,000	97,000	0	0	0	14,380	180,380	9,000	0	4,200	0	1,200	0	0	0	194,780
INTERNATIONAL SHIP REPAIR AND MARINE SERVICES INC	XYLENE (MIXED ISOMERS)	18,722	0	0	0	0	0	18,722	0	0	0	0	0	0	0	0	18,722
JEFFBOAT	XYLENE (MIXED ISOMERS)	51,678	0	0	0	0	0	51,678	0	0	0	0	0	0	0	0	51,678
J RAY MCDERMOTT INC SHIPYARD	XYLENE (MIXED ISOMERS)	13,000	0	0	0	0	5,500	18,500	5,500	0	0	0	0	0	0	0	24,000
MOSS POINT MARINE INC	XYLENE (MIXED ISOMERS)	17,067	0	0	0	0	8,220	25,287	8,220	0	0	0	0	0	0	0	33,507
NATIONAL STEEL & SHIPBUILD	XYLENE (MIXED ISOMERS)	9,700	0	0	0	0	5,700	15,400	5,700	1,000	0	0	0	0	0	0	22,100
NEWARK SHIPBUILDING & REP	XYLENE (MIXED ISOMERS)	8,521	0	250	0	0	48,150	56,921	0	0	48,150	2,502	0	0	0	0	107,573
NEWPORT NEWS SHIPBUILDING	XYLENE (MIXED ISOMERS)	85,000	0	0	0	0	224,450	309,450	210,000	0	14,000	0	410	0	0	0	534,210
NORSHIPCO CORP	XYLENE (MIXED ISOMERS)	120,000	0	0	0	0	5,000	125,000	5,000	2,500	0	0	0	0	0	0	132,500
NORSHIPCO & DRYDOCK CORP	XYLENE (MIXED ISOMERS)	20,000	0	0	0	0	2,000	22,000	2,000	0	0	0	0	0	0	0	24,000
PLATZER SHIPYARD INC	XYLENE (MIXED ISOMERS)	24,700	0	0	0	0	2,910	27,610	2,900	700	0	500	3	0	0	0	31,713
SAN FRANCISCO DRY DOCK SAN	XYLENE (MIXED ISOMERS)	13,896	0	0	0	0	0	13,896	0	0	0	0	0	0	0	0	13,896
TODD PACIFIC SHIPYARDS	XYLENE (MIXED ISOMERS)	8,917	0	0	0	0	469	9,386	469	0	0	0	0	0	0	0	9,855
TRINITY IND	XYLENE (MIXED ISOMERS)	3,735	3,734	0	0	0	12,000	19,469	12,000	0	0	0	0	0	0	0	31,469
TRINITY IND INC	XYLENE (MIXED ISOMERS)	17,850	0	0	0	0	13,380	31,030	13,380	0	0	0	0	0	0	0	44,410
TRINITY MARINE PORT ALLEN	XYLENE (MIXED ISOMERS)	14,128	0	0	0	0	8,639	22,765	8,575	0	0	0	0	0	0	0	31,340
ALABAMA SHIPYARD INC	ZINC COMPOUNDS	5,007	0	250	499	0	250	6,006	0	0	0	0	0	0	0	0	6,006
ATLANTIC MARINE INC	ZINC COMPOUNDS	16,033	0	250	160	0	250	16,693	0	0	0	0	0	0	0	0	16,693
ATLANTIC MARINE INC	ZINC COMPOUNDS	1,800	34,800	0	0	0	1,880	38,480	0	0	0	0	1,880	0	0	0	40,360
AVONDALE IND INC MAIN YA	ZINC COMPOUNDS	134	0	5	0	0	0	139	0	0	0	0	0	0	0	0	139
BETHLEHEM STEEL CORP BETH	ZINC COMPOUNDS	37,000	0	1,400	0	0	48,000	86,400	0	0	0	0	28,000	0	0	0	114,400
CASCADE GENERAL INC	ZINC COMPOUNDS	3,842	0	1,537	3,072	0	3,911	12,382	3,911	0	0	0	0	0	0	0	16,273
INGALLS SHIPBUILDING INC	ZINC COMPOUNDS	6,000	0	250	0	0	214,974	221,224	13,000	0	200,000	500	1,600	0	0	0	436,324
J RAY MCDERMOTT INC SHIPYARD	ZINC COMPOUNDS	14,000	0	0	0	0	29,000	43,000	29,000	0	0	0	0	0	0	0	72,000
NEWPORT NEWS SHIPBUILDING	ZINC COMPOUNDS	36,250	0	250	5	0	59,850	96,355	0	0	0	120	41,000	0	0	0	137,475
NORSHIPCO CORP	ZINC COMPOUNDS	250	0	0	0	0	0	250	0	0	0	0	1,000	0	0	0	1,250
HALTER MARINE INC LOCKPOR	ZINC (FUME OR DUST)	499	0	0	0	0	7,958	8,455	7,958	0	0	0	0	0	0	0	16,411
HALTER MARINE INC MOSS PO	ZINC (FUME OR DUST)	499	0	0	0	0	9,240	9,739	9,240	0	0	0	0	0	0	0	18,979
JEFFBOAT	ZINC (FUME OR DUST)	0	0	0	0	0	235,300	235,300	0	0	0	0	0	0	0	0	235,300
MOSS POINT MARINE INC	ZINC (FUME OR DUST)	5	0	0	0	0	24,989	24,984	24,989	0	0	0	0	0	0	0	49,983
NATIONAL STEEL & SHIPBUILD	ZINC (FUME OR DUST)	500	0	17	0	5	22,100	22,622	0	0	16,800	25	5	0	0	0	39,452
TRINITY IND	ZINC (FUME OR DUST)	499	0	0	0	0	1,649	2,148	12,000	0	0	0	0	0	0	0	14,148
TRINITY MARINE GROUP MADIS	ZINC (FUME OR DUST)	499	0	0	0	0	0	499	0	0	12,100	0	0	0	0	0	12,599

Facility	Toxic Chemical	Fugitive Or Non-Point Air Emissions (lbs/year)	Stack Or Point Air Emissions (lbs/year)	Discharge to Streams or Bodies of Water (lbs/year)	Releases To On-Site Landfill (lbs/year)	Discharges POTW (lbs/year)	Transfers to Other Off-site Locations (lbs/year)	81 1994 Quantity Released (lbs/year)	1994 Off-site Energy (lbs/year)	1994 On-site Recycling (lbs/year)	1994 Off-site Recycling (lbs/year)	1994 On-site Treatment (lbs/year)	1994 Off-site Treatment (lbs/year)	1994 Total Waste/rea (lbs/year)
ACADIAN SHIPYARD INC	PROPYLENE	500	0	0	0	0	0	500	0	0	0	0	0	500
ADMIRAL MARINE WORKS INC	STYRENE	500	0	0	0	0	300	800	0	0	0	0	300	1,100
ALABAMA SHIPYARD INC	ISOPROPYL ALCOHOL	1,882	9,264	0	0	0	1,261	12,407	1,261	0	0	0	0	13,668
ALABAMA SHIPYARD INC	TOLUENE	19,363	0	0	0	0	0	19,363	0	0	0	0	0	19,363
ALABAMA SHIPYARD INC	XYLENE (MIXED ISOMERS)	31,960	0	0	0	0	1,172	33,132	1,172	0	0	0	0	34,304
ALABAMA SHIPYARD INC	ZINC COMPOUNDS	5,007	0	250	499	0	250	6,006	0	0	0	0	0	6,006
ATLANTIC DRY DOCK CORP	METHYL ISOBUTYL KETONE	18,550	0	0	0	0	390	18,940	390	110	0	0	0	17,440
ATLANTIC DRY DOCK CORP	XYLENE (MIXED ISOMERS)	37,750	0	0	0	0	785	38,535	785	220	0	0	0	39,540
ATLANTIC MARINE INC	COPPER COMPOUNDS	41,618	0	5	1,665	0	1,665	44,953	0	0	0	0	0	44,953
ATLANTIC MARINE INC	N-BUTYL ALCOHOL	20,200	0	0	0	0	470	20,670	470	1,060	0	0	0	22,200
ATLANTIC MARINE INC	N-BUTYL ALCOHOL	27,850	0	0	0	0	0	27,850	0	0	0	0	0	27,850
ATLANTIC MARINE INC	TOLUENE	11,155	0	0	0	0	3,150	14,305	3,150	2,410	0	0	0	19,865
ATLANTIC MARINE INC	XYLENE (MIXED ISOMERS)	10,700	12,800	0	0	0	470	23,970	470	1,190	0	0	0	25,630
ATLANTIC MARINE INC	XYLENE (MIXED ISOMERS)	123,535	0	0	0	0	28,622	152,157	28,622	1,010	0	0	0	181,789
ATLANTIC MARINE INC	ZINC COMPOUNDS	1,800	34,800	0	0	0	1,880	38,480	0	0	0	0	1,880	40,360
ATLANTIC MARINE INC	ZINC COMPOUNDS	18,033	0	250	160	0	250	18,693	0	0	0	0	0	16,693
AVONDALE IND GRP DIV	STYRENE	21,700	0	0	0	0	24,000	45,700	24,000	0	0	0	0	69,700
AVONDALE IND INC MAIN YA	1,2,4-TRIMETHYLBENZENE	6,440	0	0	0	0	10,150	16,590	10,150	0	0	0	0	26,740
AVONDALE IND INC MAIN YA	CHROMIUM COMPOUNDS	85	0	5	0	5	359,600	359,695	0	0	359,740	0	3	719,438
AVONDALE IND INC MAIN YA	COPPER COMPOUNDS	730	0	0	0	10	435,480	436,220	0	0	335,500	0	0	771,720
AVONDALE IND INC MAIN YA	GLYCOL ETHERS	31,430	0	0	0	0	25,380	56,810	25,380	0	0	0	0	82,190
AVONDALE IND INC MAIN YA	XYLENE (MIXED ISOMERS)	20,170	0	0	0	0	40,610	60,780	40,610	0	0	0	0	101,390
AVONDALE IND INC MAIN YA	ZINC COMPOUNDS	134	0	5	0	0	0	139	0	0	0	0	0	139
BATH IRON WORKS CORP	1,2,4-TRIMETHYLBENZENE	15,070	0	0	0	0	8,353	23,423	8,353	0	0	0	0	31,776
BATH IRON WORKS CORP	CHROMIUM	10	0	0	0	0	153,200	153,210	0	4,190	15,070	0	0	172,470
BATH IRON WORKS CORP	CHROMIUM	10	0	5	0	10	63,173	63,198	0	0	69,840	0	0	133,038
BATH IRON WORKS CORP	COPPER	5	0	5	0	0	264,148	264,158	0	0	265,357	0	0	529,515
BATH IRON WORKS CORP	COPPER	10	0	0	0	0	100,330	100,340	0	32,815	100,080	0	0	233,235
BATH IRON WORKS CORP	N-BUTYL ALCOHOL	42,850	0	0	0	0	23,758	66,608	23,758	0	0	0	0	90,362
BATH IRON WORKS CORP	NICKEL	5	0	5	0	0	62,427	62,437	0	0	67,502	0	0	129,939
BATH IRON WORKS CORP	NICKEL	10	0	0	0	0	21,295	21,305	0	6,500	21,045	0	0	48,850
BATH IRON WORKS CORP	PROPYLENE	57	0	0	0	0	0	57	0	0	0	0	0	57
BATH IRON WORKS CORP	XYLENE (MIXED ISOMERS)	13,756	0	0	0	0	7,624	21,380	7,625	0	0	0	0	29,005
BATH IRON WORKS CORP PORT	2-ETHOXYETHANOL	14,004	0	0	0	0	4,732	18,736	4,732	0	0	0	0	23,468
BATH IRON WORKS CORP PORT	CHROMIUM	5	0	5	0	0	37,742	37,752	0	0	38,696	0	0	76,448
BATH IRON WORKS CORP PORT	COPPER	5	0	5	0	0	255	265	0	0	0	0	0	265
BATH IRON WORKS CORP PORT	N-BUTYL ALCOHOL	8,123	0	0	0	0	2,484	10,587	2,484	0	0	0	0	13,051
BATH IRON WORKS CORP PORT	NICKEL	5	0	5	0	0	21,955	21,965	0	0	22,400	0	0	44,365
BATH IRON WORKS CORP PORT	PROPYLENE	5	0	0	0	0	0	5	0	0	0	0	0	5
BETHLEHEM STEEL CORP BETH	COPPER COMPOUNDS	27,000	0	1,900	0	0	55,000	83,900	0	0	0	0	20,000	103,900
BETHLEHEM STEEL CORP BETH	PROPYLENE	250	0	0	0	0	0	250	0	0	0	0	0	250
BETHLEHEM STEEL CORP BETH	XYLENE (MIXED ISOMERS)	96,000	0	0	0	0	14,000	110,000	0	0	0	0	14,000	124,000
BETHLEHEM STEEL CORP BETH	ZINC COMPOUNDS	37,000	0	1,400	0	0	48,000	86,400	0	0	0	0	28,000	114,400
BETHLEHEM STEEL CORP SABI	N-BUTYL ALCOHOL	28,000	0	0	0	0	4,300	32,300	0	0	0	0	4,000	36,300
BETHLEHEM STEEL CORP SABI	PROPYLENE	250	0	0	0	0	0	250	0	0	0	0	0	250
BETHLEHEM STEEL CORP SABI	XYLENE (MIXED ISOMERS)	19,000	0	0	0	0	3,020	22,020	3,000	440	0	0	0	25,460
BOLLINGER QUICK REPAIR INC	XYLENE (MIXED ISOMERS)	12,000	0	0	0	0	250	12,250	0	0	400	0	0	12,650
BOLLINGER SHIPYARDS INC	TOLUENE	19,000	0	0	0	0	1,300	20,300	0	0	1,300	0	0	21,600
BOLLINGER SHIPYARDS INC	XYLENE (MIXED ISOMERS)	15,000	0	0	0	0	2,200	17,200	0	0	2,200	0	0	19,400
BOLLINGER SHIPYARDS INC	XYLENE (MIXED ISOMERS)	15,000	0	0	0	0	250	15,250	0	0	150	0	0	15,400
BROWN & ROOT INC MARINE F	BARIUM	10	0	499	0	0	750	1,259	0	0	0	0	0	1,259
BROWN & ROOT INC MARINE F	MANGANESE	9,200	0	0	0	0	20,850	30,050	0	0	20,900	0	0	50,950
CASCADE GENERAL INC	COPPER COMPOUNDS	22,783	0	5,113	10,225	0	20,531	58,652	20,531	0	0	0	0	79,183
CASCADE GENERAL INC	N-BUTYL ALCOHOL	13,310	0	1,221	1,221	0	1,100	16,852	1,100	0	0	0	0	17,952
CASCADE GENERAL INC	XYLENE (MIXED ISOMERS)	65,548	0	3,231	6,462	0	927	76,168	927	0	0	0	0	77,095
CASCADE GENERAL INC	ZINC COMPOUNDS	3,642	0	1,537	3,072	0	3,911	12,362	3,911	0	0	0	0	16,273
COLONNAS SHIPYARD INC	METHYL ISOBUTYL KETONE	8,500	0	0	0	0	0	8,500	0	0	0	0	0	8,500
COLONNAS SHIPYARD INC	N-BUTYL ALCOHOL	12,500	0	0	0	0	0	12,500	0	0	0	0	0	12,500
COLONNAS SHIPYARD INC	XYLENE (MIXED ISOMERS)	22,000	0	0	0	0	0	22,000	0	0	0	0	0	22,000
EQUITABLE/HALTER	XYLENE (MIXED ISOMERS)	10,962	0	0	0	0	2,191	13,153	2,191	0	0	0	0	15,344
GENERAL DYNAMICS CORP ELE	CHROMIUM COMPOUNDS	147	0	36	0	0	15	198	0	0	15	0	0	213
GENERAL DYNAMICS CORP ELE	COPPER COMPOUNDS	1,580	0	249	0	10	0	1,849	0	0	0	0	0	1,849
GENERAL DYNAMICS CORP ELE	COPPER COMPOUNDS	961	0	0	0	0	0	961	0	0	0	0	0	961
GENERAL DYNAMICS CORP ELE	FREON 113	31,735	0	0	0	0	17,280	49,015	0	0	17,280	0	0	66,295
GENERAL DYNAMICS CORP ELE	LEAD COMPOUNDS	250	0	113	0	0	2,473	2,836	0	0	1,726	0	747	5,309
GENERAL DYNAMICS CORP ELE	MANGANESE COMPOUNDS	912	0	0	0	0	0	912	0	0	0	0	0	912
GENERAL DYNAMICS CORP ELE	MANGANESE COMPOUNDS	402	0	0	0	0	0	402	0	0	0	0	0	402
GENERAL DYNAMICS CORP ELE	N-BUTYL ALCOHOL	6,653	0	0	0	0	2,627	9,480	2,549	0	0	0	78	12,107
GENERAL DYNAMICS CORP ELE	NICKEL COMPOUNDS	356	0	0	0	0	0	356	0	0	0	0	0	356
GENERAL DYNAMICS CORP ELE	NICKEL COMPOUNDS	697	0	34	0	10	0	741	0	0	0	0	0	741
GENERAL DYNAMICS CORP ELE	STYRENE	378	0	0	0	0	30	408	0	0	0	0	30	438

Facility	Toxic Chemical	Fugitive Or Non-Point Air Emissions (lbs/year)	Stack Or Point Air Emissions (lbs/year)	Discharge to Streams or Bodies of Water (lbs/year)	Releases To On-Site Landfill (lbs/year)	Discharges POTW (lbs/year)	Transfers to Other Off-site Locations (lbs/year)	8 1 1994 Quantity Released (lbs/year)	1994 Off-site Energy (lbs/year)	1994 On-site Recycling (lbs/year)	1994 Off-site Recycling (lbs/year)	1994 On-site Treatment (lbs/year)	1994 Off-site Treatment (lbs/year)	1994 Total Wastewater (lbs/year)
GENERAL DYNAMICS CORP ELE	XYLENE (MIXED ISOMERS)	2,916	0	0	0	0	23,025	25,941	20,154	0	0	0	2,871	48,966
GRETHA MACHINE & IRON WORK	MANGANESE	474	0	0	0	0	0	474	0	0	0	0	0	474
GRETHA MACHINE & IRON WORK	N-BUTYL ALCOHOL	10,304	0	0	0	0	3,695	13,999	3,696	524	0	0	0	18,219
GRETHA MACHINE & IRON WORK	XYLENE (MIXED ISOMERS)	15,281	0	0	0	0	5,543	20,824	5,544	786	0	0	0	27,154
GUNDERSON INC	1,1,1-TRICHLOROETHANE	57,000	0	0	0	0	2,000	59,000	0	0	0	2,000	0	61,000
GUNDERSON INC	CHROMIUM	0	0	0	0	0	28,000	28,000	0	0	27,000	0	0	55,000
GUNDERSON INC	COPPER	0	0	0	0	0	9,000	9,000	0	0	9,000	0	0	18,000
GUNDERSON INC	MANGANESE	250	0	0	0	0	230,000	230,250	0	0	230,000	0	0	460,250
GUNDERSON INC	METHYL ETHYL KETONE	28,000	0	0	0	0	0	28,000	0	0	0	0	0	28,000
GUNDERSON INC	NICKEL	0	0	0	0	0	37,000	37,000	0	0	37,000	0	0	74,000
GUNDERSON INC	TOLUENE	48,000	0	0	0	0	9,250	57,250	9,000	20,000	0	0	90	86,340
GUNDERSON INC	XYLENE (MIXED ISOMERS)	70,000	0	0	0	0	250	70,250	76	0	0	0	0	70,326
HALTER MARINE INC LOCKPOR	ISOPROPYL ALCOHOL (MANUFACTURING, ST	10,950	0	0	0	0	3,960	14,910	3,960	786	0	0	0	19,656
HALTER MARINE INC LOCKPOR	METHYL ETHYL KETONE	8,987	0	0	0	0	3,264	12,251	3,264	3,365	0	0	0	18,880
HALTER MARINE INC LOCKPOR	XYLENE (MIXED ISOMERS)	24,398	0	0	0	0	9,180	33,578	9,180	0	0	0	0	42,758
HALTER MARINE INC LOCKPOR	ZINC (FUME OR DUST)	499	0	0	0	0	7,958	8,455	7,958	0	0	0	0	16,411
HALTER MARINE INC MOSS PO	XYLENE (MIXED ISOMERS)	11,599	0	0	0	0	9,240	20,839	9,240	4,015	0	0	0	34,094
HALTER MARINE INC MOSS PO	ZINC (FUME OR DUST)	499	0	0	0	0	9,240	9,739	9,240	0	0	0	0	18,979
HBC BARGE INC	METHYL ETHYL KETONE	10,549	0	0	0	0	2,838	13,387	2,838	0	0	0	0	15,225
HBC BARGE INC	XYLENE (MIXED ISOMERS)	18,846	0	0	0	0	4,712	23,558	4,711	0	0	0	0	28,269
INGALLS SHIPBUILDING INC	1,1,1-TRICHLOROETHANE	19,000	0	0	0	0	1,915	20,915	0	0	1,800	0	120	22,835
INGALLS SHIPBUILDING INC	1,2,4-TRIMETHYLBENZENE	130,000	0	0	0	0	23,600	153,600	21,000	0	0	0	2,600	177,200
INGALLS SHIPBUILDING INC	CHLORINE	250	0	360	0	0	0	610	0	0	0	0	430	1,040
INGALLS SHIPBUILDING INC	CHROMIUM COMPOUNDS	250	0	250	0	0	165	665	10	0	10	500	10	1,195
INGALLS SHIPBUILDING INC	COPPER COMPOUNDS	250	0	0	0	0	8,355	8,605	7,200	0	0	500	900	17,205
INGALLS SHIPBUILDING INC	DICHLOROMETHANE	21,000	0	0	0	0	1,460	22,460	870	0	0	0	220	23,550
INGALLS SHIPBUILDING INC	LEAD COMPOUNDS	250	0	0	0	0	275	525	20	0	10	500	10	1,065
INGALLS SHIPBUILDING INC	MANGANESE COMPOUNDS	250	0	0	0	0	0	250	0	0	0	0	0	250
INGALLS SHIPBUILDING INC	N-BUTYL ALCOHOL	360,000	0	0	0	0	64,000	424,000	57,000	0	0	0	7,000	488,000
INGALLS SHIPBUILDING INC	NICKEL	250	0	0	0	0	0	250	0	0	0	0	0	250
INGALLS SHIPBUILDING INC	SULFURIC ACID	950	0	0	0	0	17,730	18,680	0	0	0	0	2,700	21,380
INGALLS SHIPBUILDING INC	TOLUENE	76,000	0	0	0	0	6,190	82,190	3,300	0	2,100	0	790	88,380
INGALLS SHIPBUILDING INC	XYLENE (MIXED ISOMERS)	69,000	97,000	0	0	0	14,380	180,380	9,000	0	4,200	0	1,200	194,780
INGALLS SHIPBUILDING INC	ZINC COMPOUNDS	6,000	0	250	0	0	214,974	221,224	13,000	0	200,000	500	1,600	436,324
INTERMARINE USA	STYRENE	25,571	0	0	0	0	39,257	64,828	21,565	0	0	0	0	86,393
INTERNATIONAL SHIP REPAIR AND MARINE SERVICES INC	XYLENE (MIXED ISOMERS)	18,722	0	0	0	0	0	18,722	0	0	0	0	0	18,722
JEFFBOAT	MANGANESE	1,865	0	0	0	0	0	1,865	0	0	0	0	0	1,865
JEFFBOAT	METHYL ETHYL KETONE	52,343	0	0	0	0	42,134	94,477	42,134	0	0	0	0	136,611
JEFFBOAT	N-BUTYL ALCOHOL	33,834	0	0	0	0	0	33,834	0	0	0	0	0	33,834
JEFFBOAT	XYLENE (MIXED ISOMERS)	51,678	0	0	0	0	0	51,678	0	0	0	0	0	51,678
JEFFBOAT	ZINC (FUME OR DUST)	0	0	0	0	0	235,300	235,300	0	0	0	0	0	235,300
J RAY MCDERMOTT INC SHIPYARD	CHROMIUM COMPOUNDS	499	0	0	0	0	0	499	0	0	0	0	0	499
J RAY MCDERMOTT INC SHIPYARD	COPPER COMPOUNDS	499	0	0	0	0	0	499	0	0	0	0	0	499
J RAY MCDERMOTT INC SHIPYARD	MANGANESE COMPOUNDS	499	0	0	0	0	0	499	0	0	0	0	0	499
J RAY MCDERMOTT INC SHIPYARD	METHANOL	9,800	0	0	0	0	4,200	14,000	4,200	0	0	0	0	18,200
J RAY MCDERMOTT INC SHIPYARD	N-BUTYL ALCOHOL	8,100	0	0	0	0	3,500	11,600	3,500	0	0	0	0	15,100
J RAY MCDERMOTT INC SHIPYARD	NICKEL COMPOUNDS	499	0	0	0	0	0	499	0	0	0	0	0	499
J RAY MCDERMOTT INC SHIPYARD	TOLUENE	28,000	0	0	0	0	12,000	40,000	12,000	0	0	0	0	52,000
J RAY MCDERMOTT INC SHIPYARD	XYLENE (MIXED ISOMERS)	13,000	0	0	0	0	5,500	18,500	5,500	0	0	0	0	24,000
J RAY MCDERMOTT INC SHIPYARD	ZINC COMPOUNDS	14,000	0	0	0	0	29,000	43,000	29,000	0	0	0	0	72,000
MAKO MARINE INC	METHYLENEBIS(PHENYLISOCYANATE)	0	0	0	0	0	0	0	0	0	0	0	0	0
MAKO MARINE INC	STYRENE	68,000	0	0	0	0	0	68,000	0	0	0	0	0	68,000
MOSS POINT MARINE INC	METHYL ETHYL KETONE	8,242	0	0	0	0	5,754	11,996	5,754	0	0	0	0	17,750
MOSS POINT MARINE INC	N-BUTYL ALCOHOL	11,841	0	0	0	0	11,015	22,856	11,015	0	0	0	0	33,871
MOSS POINT MARINE INC	XYLENE (MIXED ISOMERS)	17,067	0	0	0	0	8,220	25,287	8,220	0	0	0	0	33,507
MOSS POINT MARINE INC	ZINC (FUME OR DUST)	5	0	0	0	0	24,989	24,994	24,989	0	0	0	0	49,983
NATIONAL STEEL & SHIPBUILD	1,2,4-TRIMETHYLBENZENE	25,600	0	0	0	0	14,000	39,600	14,000	2,100	0	0	0	55,700
NATIONAL STEEL & SHIPBUILD	N-BUTYL ALCOHOL	54,800	0	0	0	0	11,000	65,800	11,000	0	0	0	0	76,800
NATIONAL STEEL & SHIPBUILD	XYLENE (MIXED ISOMERS)	9,700	0	0	0	0	5,700	15,400	5,700	1,000	0	0	0	22,100
NATIONAL STEEL & SHIPBUILD	ZINC (FUME OR DUST)	500	0	17	0	5	22,100	22,622	0	0	16,800	25	5	39,452
NEW ORLEANS SHIPYARD	STYRENE	0	0	0	0	0	0	0	0	0	0	0	0	0
NEWARK SHIPBUILDING & REP	1,2-DICHLOROETHANE	499	10	250	0	0	62,132	52,891	0	0	52,132	2,492	0	107,515
NEWARK SHIPBUILDING & REP	METHANOL	255	0	250	0	0	46,200	46,705	0	0	46,200	2,384	0	95,289
NEWARK SHIPBUILDING & REP	STYRENE	255	0	250	0	0	46,625	47,130	0	0	46,625	2,408	0	96,161
NEWARK SHIPBUILDING & REP	XYLENE (MIXED ISOMERS)	8,521	0	250	0	0	48,150	56,671	0	0	48,150	2,502	0	107,573
NEWPORT NEWS SHIPBUILDING	1,1,1-TRICHLOROETHANE	48,000	0	0	0	0	3,700	49,700	0	0	3,700	0	100	53,500
NEWPORT NEWS SHIPBUILDING	BARIUM COMPOUNDS	28,000	0	0	0	0	21,050	49,050	0	0	0	0	21,000	70,050
NEWPORT NEWS SHIPBUILDING	CHROMIUM COMPOUNDS	7,750	0	250	250	0	10,850	18,100	0	0	0	1,500	11,000	31,600
NEWPORT NEWS SHIPBUILDING	COPPER COMPOUNDS	8,800	0	250	250	0	25,600	34,900	0	0	0	100	25,000	60,000
NEWPORT NEWS SHIPBUILDING	DICHLOROMETHANE	27,000	0	0	0	0	4,000	31,000	4,000	0	0	0	0	35,000
NEWPORT NEWS SHIPBUILDING	DICHLOROTETRAFLUOROETHANE	250	0	0	0	0	0	250	0	0	0	0	0	250

Facility	Toxic Chemical	B 1											1994 On-site Recycling (lbs/year)	1994 Off-site Recycling (lbs/year)	1994 On-site Treatment (lbs/year)	1994 Off-site Treatment (lbs/year)	1994 Total Wastewater (lbs/year)
		Fugitive Or Non-Point Air Emissions (lbs/year)	Stack Or Point Air Emissions (lbs/year)	Discharge to Streams or Bodies of Water (lbs/year)	Releases To On-Site Landfill (lbs/year)	Discharges POTW (lbs/year)	Transfers to Other Off-site Locations (lbs/year)	1994 Quantity Released (lbs/year)	1994 Off-site Energy (lbs/year)								
NEWPORT NEWS SHIPBUILDING	ETHYLBENZENE	7,700	0	0	0	0	18,600	26,300	8,200	0	10,000	0	0	0	44,500		
NEWPORT NEWS SHIPBUILDING	ETHYLENE GLYCOL	250	0	0	0	0	4,600	4,850	0	0	0	25,000	130	0	30,440		
NEWPORT NEWS SHIPBUILDING	FREON 113	19,000	0	0	0	0	131,000	150,000	0	0	130,000	0	0	0	280,000		
NEWPORT NEWS SHIPBUILDING	LEAD COMPOUNDS	250	0	250	0	0	18,650	17,150	0	0	0	90	320	0	17,560		
NEWPORT NEWS SHIPBUILDING	MANGANESE COMPOUNDS	250	0	250	250	0	0	750	0	0	0	0	0	0	750		
NEWPORT NEWS SHIPBUILDING	MOLYBDENUM TRIOXIDE	0	10	0	0	0	0	10	0	0	0	0	0	0	10		
NEWPORT NEWS SHIPBUILDING	N-BUTYL ALCOHOL	55,000	0	0	0	0	78,800	133,800	62,000	0	16,000	0	100	0	211,900		
NEWPORT NEWS SHIPBUILDING	NICKEL COMPOUNDS	39,000	0	250	0	0	17,200	56,700	0	0	0	150	17,000	0	73,850		
NEWPORT NEWS SHIPBUILDING	TRICHLOROETHYLENE	16,000	0	0	0	0	1,350	17,350	0	0	1,100	0	100	0	18,550		
NEWPORT NEWS SHIPBUILDING	XYLENE (MIXED ISOMERS)	85,000	0	0	0	0	224,450	309,450	210,000	0	14,000	0	410	0	534,210		
NEWPORT NEWS SHIPBUILDING	ZINC COMPOUNDS	38,250	0	250	5	0	59,850	96,355	0	0	0	120	41,000	0	137,475		
NORSHIPCO CORP	CHROMIUM COMPOUNDS	500	0	0	0	0	750	1,250	0	0	0	0	5	0	1,255		
NORSHIPCO CORP	COPPER COMPOUNDS	250	0	0	0	0	15,000	15,250	0	0	15,000	0	1,000	0	31,250		
NORSHIPCO CORP	METHYL ISOBUTYL KETONE	27,000	0	0	0	0	1,500	28,500	1,500	500	0	0	0	0	30,500		
NORSHIPCO CORP	N-BUTYL ALCOHOL	25,000	0	0	0	0	2,000	27,000	2,000	500	0	0	0	0	29,500		
NORSHIPCO CORP	XYLENE (MIXED ISOMERS)	120,000	0	0	0	0	5,000	125,000	5,000	2,500	0	0	0	0	132,500		
NORSHIPCO CORP	ZINC COMPOUNDS	250	0	0	0	0	0	250	0	0	0	0	1,000	0	1,250		
NORSHIPCO & DRYDOCK CORP	N-BUTYL ALCOHOL	15,000	0	0	0	0	750	15,750	750	0	0	0	0	0	16,500		
NORSHIPCO & DRYDOCK CORP	XYLENE (MIXED ISOMERS)	20,000	0	0	0	0	2,000	22,000	2,000	0	0	0	0	0	24,000		
PLATZER SHIPYARD INC	1,2-DICHLOROETHANE	499	7,600	0	0	0	10	8,109	0	0	0	120	3	0	8,232		
PLATZER SHIPYARD INC	BENZENE	18,350	0	0	0	0	61,820	80,170	61,800	0	0	330	4	0	142,304		
PLATZER SHIPYARD INC	CARBON TETRACHLORIDE	499	6,500	0	0	0	10	7,009	0	0	0	120	3	0	7,132		
PLATZER SHIPYARD INC	CUMENE	499	3,800	0	0	0	10	4,109	0	0	0	185	3	0	4,277		
PLATZER SHIPYARD INC	ETHYLBENZENE	2,050	0	0	0	0	710	2,760	700	170	0	65	3	0	3,698		
PLATZER SHIPYARD INC	ETHYLENE GLYCOL	499	499	0	0	0	10	1,008	0	0	0	200	3	0	1,211		
PLATZER SHIPYARD INC	METHANOL	7,450	0	0	0	0	10	7,460	0	0	0	400	3	0	7,863		
PLATZER SHIPYARD INC	METHYL ISOBUTYL KETONE	14,000	999	0	0	0	10	15,009	0	0	0	6	3	0	15,018		
PLATZER SHIPYARD INC	METHYL TERT-BUTYL ETHER	41,850	0	0	0	0	10	41,860	0	0	0	330	3	0	41,993		
PLATZER SHIPYARD INC	N-BUTYL ALCOHOL	2,600	0	0	0	0	10	2,610	0	0	0	70	4	0	2,684		
PLATZER SHIPYARD INC	STYRENE	6,850	0	0	0	0	10	6,860	0	0	0	480	3	0	7,343		
PLATZER SHIPYARD INC	TOLUENE	5,950	0	0	0	0	217,710	223,660	217,700	330	0	220	3	0	441,913		
PLATZER SHIPYARD INC	VINYL ACETATE	499	9,700	0	0	0	10	10,209	0	0	0	280	3	0	10,492		
PLATZER SHIPYARD INC	XYLENE (MIXED ISOMERS)	24,700	0	0	0	0	2,910	27,610	2,900	700	0	500	3	0	31,713		
SAN FRANCISCO DRY DOCK SAN	COPPER COMPOUNDS	0	0	9	0	0	1,485	1,494	1,485	0	0	0	0	0	2,979		
SAN FRANCISCO DRY DOCK SAN	XYLENE (MIXED ISOMERS)	13,896	0	0	0	0	0	13,896	0	0	0	0	0	0	13,896		
TODD PACIFIC SHIPYARDS	COPPER COMPOUNDS	499	499	500	0	10	1,651	3,159	0	0	0	0	2,468	0	5,627		
TODD PACIFIC SHIPYARDS	N-BUTYL ALCOHOL	11,303	0	0	0	0	667	11,970	667	0	0	0	0	0	12,637		
TODD PACIFIC SHIPYARDS	XYLENE (MIXED ISOMERS)	8,917	0	0	0	0	469	9,386	469	0	0	0	0	0	9,855		
TRINITY IND	TOLUENE	7,409	7,408	0	0	0	12,000	26,817	12,000	0	0	0	0	0	38,817		
TRINITY IND	XYLENE (MIXED ISOMERS)	3,735	3,734	0	0	0	12,000	19,469	12,000	0	0	0	0	0	31,469		
TRINITY IND	ZINC (FUME OR DUST)	499	0	0	0	0	1,649	2,148	12,000	0	0	0	0	0	14,148		
TRINITY IND INC	XYLENE (MIXED ISOMERS)	17,650	0	0	0	0	13,380	31,030	13,380	0	0	0	0	0	44,410		
TRINITY MARINE GROUP MADIS	MANGANESE	23	0	0	0	0	0	23	0	0	0	0	0	0	23		
TRINITY MARINE GROUP MADIS	ZINC (FUME OR DUST)	499	0	0	0	0	0	499	0	0	12,100	0	0	0	12,599		
TRINITY MARINE PORT ALLEN	XYLENE (MIXED ISOMERS)	14,126	0	0	0	0	8,639	22,765	8,575	0	0	0	0	0	31,340		
U S NAVY NORFOLK NAVAL SHIPYARD	1,1,1-TRICHLOROETHANE	11,000	0	10	0	0	12,000	23,010	0	0	0	0	12,000	0	35,010		
U S NAVY NORFOLK NAVAL SHIPYARD	COPPER COMPOUNDS	1,200	0	999	0	999	4,800	7,998	0	0	0	0	4,800	0	12,798		
U S NAVY NORFOLK NAVAL SHIPYARD	DICHLOROMETHANE	3,400	1,200	10	0	0	250	4,660	0	0	0	0	490	0	5,350		
U S NAVY NORFOLK NAVAL SHIPYARD	ETHYLENE GLYCOL	1,200	0	0	0	0	3,600	4,800	0	0	0	0	3,600	0	8,400		
U S NAVY NORFOLK NAVAL SHIPYARD	FREON 113	11,000	0	0	0	0	5,600	16,600	0	0	0	0	5,600	0	22,200		
U S NAVY NORFOLK NAVAL SHIPYARD	N-BUTYL ALCOHOL	22,000	2,300	0	0	0	22,005	46,305	0	1,600	0	0	22,000	0	69,905		
U S NAVY NORFOLK NAVAL SHIPYARD	SULFURIC ACID	10	499	0	0	0	1,700	2,209	0	0	0	1,100	1,700	0	5,009		
U S NAVY NORFOLK NAVAL SHIPYARD	TOLUENE	9,800	999	10	0	0	15,010	25,819	0	0	0	0	15,000	0	40,819		
U S NAVY NORFOLK NAVAL SHIPYARD	XYLENE	32,000	2,400	0	0	0	21,010	55,410	0	1,600	0	0	21,000	0	78,010		

Additional copies of this report can be obtained from the
National Shipbuilding Research and Documentation Center:

<http://www.nsnet.com/docctr/>

Documentation Center
The University of Michigan
Transportation Research Institute
Marine Systems Division
2901 Baxter Road
Ann Arbor, MI 48109-2150

Phone: 734-763-2465
Fax: 734-936-1081
E-mail: Doc.Center@umich.edu